

The

DRUGGIST



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 21 1962

tafford AllenS



for the finest quality
**GALENICALS &
DRUG EXTRACTS**

UNICHEM'S growth beats all previous records

Expansion programme benefits supporters throughout the country...

HOW UNICHEM IS BACKING ITS SUPPORTERS

Unichem deliveries are being increased in frequency and radius
Increasing team of representatives means more frequent and more personal attention

Unichem's modern stock control systems ensure constant availability of ethicals

A wider range of Sundries gives supporters a greater choice

Unichem's enlarged Shop Modernization Service, through additional experts provides on-the-spot consultations in supporters' pharmacies

The Unichem Information Bureaux of pharmaceutical, technical and business administration have been strengthened to give a yet broader service to supporters

These and many other benefits could be YOURS

Since Unichem embarked on its programme of expansion early in 1961, new supporters in all parts of the country have joined the movement in record numbers. During that time, Unichem has made considerable investments to increase benefits to its supporters by way of extra Depot staff, additional representatives, improved deliveries, enlarged stocks—especially of ethicals and sundries.

Unichem is wholly owned and controlled by independent Chemists and exists for their exclusive benefit.

THERE'S NO SUBSCRIPTION—
Inquiries invited from all owner-pharmacists

unichem

UNICHEM LIMITED

HEAD OFFICE:
BROADWATER ROAD, LONDON, S.W.17 BALHAM 1151

DEPOTS AT:

BROADWATER ROAD, LONDON, S.W.17 BALHAM 2491
FORTESCUE ROAD, LONDON, S.W.19 CHERRYWOOD 3322
8 WESTBURY ROAD, LONDON, E.17 COPPERMILL 5566
POOL ROAD, NUNEATON, WARWICKS. NUNEATON 4210

Step
ATOMISERS

Step
ATOMISERS

Step
ATOMISERS

CHANGE OF DISTRIBUTION
AS FROM JULY 15th 1962

Step
ATOMISERS

Future orders and enquiries
should be addressed to
E. M. DOUEK
& Co. Ltd.
39 George Street, London, W.1
Tel: WELbeck 1309

Step
ATOMISERS



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 178

July 21, 1962

No. 4301

CONTENTS

| | | | | | |
|---|-----|-----|---------------------|-----|----|
| Correspondence | ... | ... | ... | ... | 63 |
| Leading Articles: | | | | | |
| Drugs in the Public Eye | ... | ... | ... | ... | 65 |
| Cabinet Rank for the Minister | ... | ... | ... | ... | 65 |
| Severed Connections | ... | ... | ... | ... | 65 |
| Molecular Biology | ... | ... | ... | ... | 57 |
| New Veterinary Vaccine Unit | ... | ... | ... | ... | 60 |
| "Open Shop" | ... | ... | ... | ... | 64 |
| Pharmaceutical Society of Great Britain: Council Meeting | ... | ... | ... | ... | 66 |
| Pharmaceutical Society of Ireland: Council Meeting | ... | ... | ... | ... | 71 |
| "Pharmaco-Pinax" | ... | ... | ... | ... | 67 |
| Thalidomide on "Panorama" | ... | ... | ... | ... | 56 |
| Topical Reflections | ... | ... | ... | ... | 55 |
| Unique Records of Service | ... | ... | ... | ... | 54 |
| Business Changes | ... | 58 | New Films | ... | 70 |
| Coming Events | ... | 77 | New Products | ... | 61 |
| Commercial Television | ... | 77 | Patents | ... | 78 |
| Company News | ... | 58 | Personalities | ... | 58 |
| Contemporary Themes | ... | 78 | Print and Publicity | ... | 77 |
| Deaths | ... | 59 | Trade Marks | ... | 78 |
| In Parliament | ... | 59 | Trade Notes | ... | 60 |
| Legal Reports | ... | 58 | Trade Report | ... | 75 |
| Manufacturers' Activities | ... | 57 | Wills | ... | 77 |
| New Companies | ... | 58 | World Trade | ... | 78 |

Index to Advertisers, p. 5. Classified Advertisements, p. 38.

Cumulative price list (home copies only): loose supplement.

PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

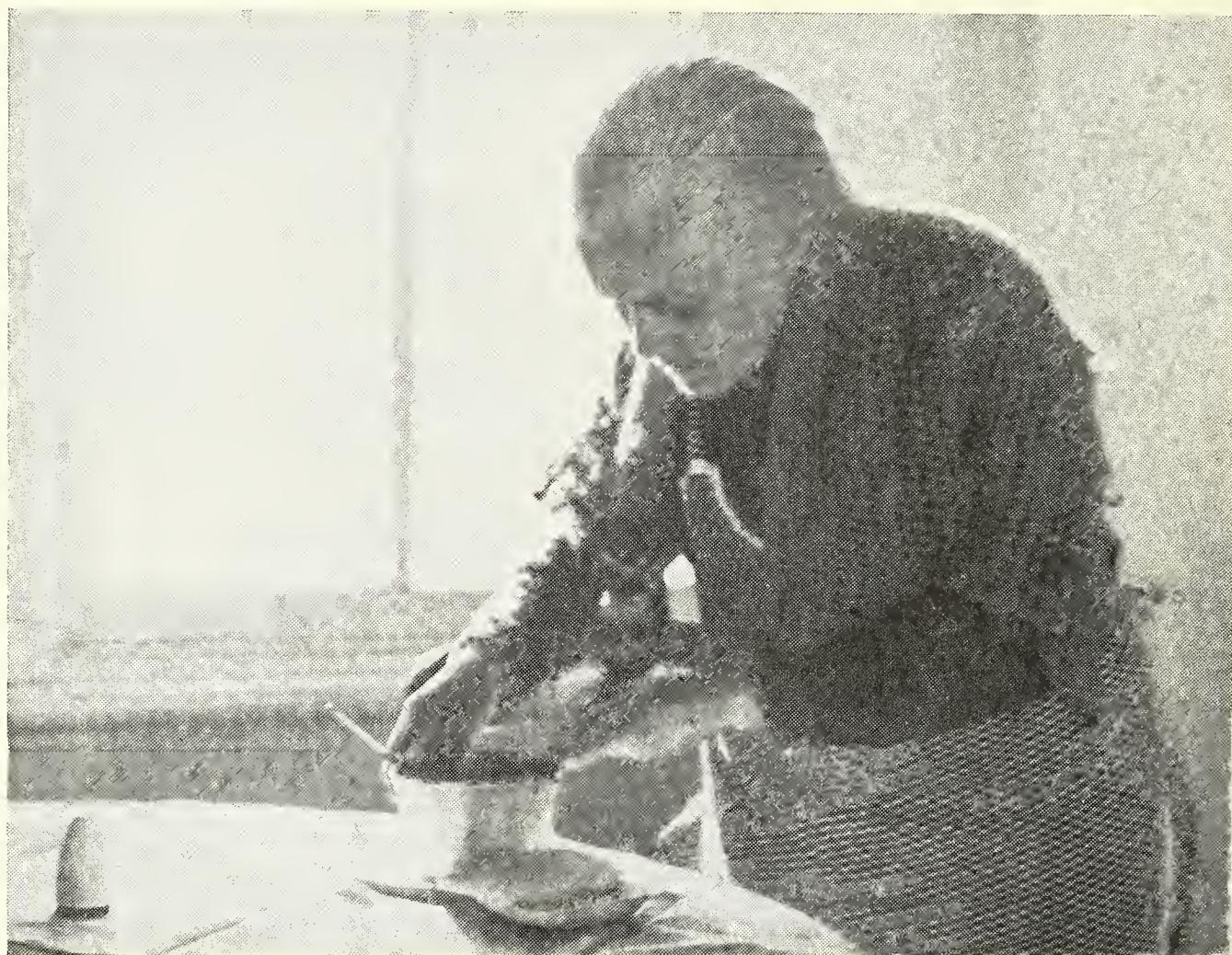
 MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

 MORGAN BROTHERS (PUBLISHERS), LTD. 1962

GLASGOW: 160 Nether Auldhause Road, S.3. Phone: Langside 2679.
LEEDS, 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438.
WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood.
Phone: Wolverhampton 52301.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each (postage 5d.).



The dietary problems of elderly people trying to make do on 'tea and toast' meals can easily be resolved with Complan. It is complete in every nutritional detail, simple to prepare, needs no chewing and is inexpensive. Coffee, cocoa or other flavouring may be added if desired.

COMPLAN complete planned food to drink

1 lb. cartons—Retail Price 4/2 each Trade Price 40/- per dozen

COMPLAN No. 1 Parcel 24 x 1 lb. cartons £3.15.0.

The name Complan is a Glaxo trade mark



GLAXO LABORATORIES LIMITED





The CHEMIST AND DRUGGIST

Volume 178

JULY 21, 1962

No. 4301

Fewer Surrey Pharmacies EXECUTIVE COUNCIL DISCLOSURES

A DECLINE in the number of pharmacies is commented on in the 1961-62 report of the Surrey Executive Council by Mr. F. C. Wilson, its chairman.

Pharmacies on the Council's Pharmaceutical List, he says, had dropped from 421 to 412 in the year and, of 446 pharmacies providing pharmaceutical service in 1947, forty-one had closed and five others had been withdrawn. To offset that loss, twelve new pharmacies had been opened, leaving a net loss of thirty-four. "While, generally speaking, these losses have been absorbed by the remaining pharmacies without any detrimental effect on the dispensing service available to the public," says Mr. Wilson, "the time cannot be far distant when difficulty will be experienced in maintaining an adequate pharmaceutical service in districts involved in further closure of pharmacies." The report shows that the number of prescriptions submitted for pricing by chemist contractors during the twelve months ended December 31, 1961, was 5,807,751, 219,668 less than the number priced in the previous year. But the average cost per prescription rose by 11½d. to 8s. 7½d. "To what extent this may be due," says Mr. Wilson, "to the doubling of the prescription charge is difficult to assess, but it is perhaps significant to note that the average cost per prescription in the previous year rose by only 5½d. to 7s. 8d. per prescription."

Liverpool Conference

PROGRESS OF ARRANGEMENTS

THE British Pharmaceutical Conference Executive reports that arrangements are progressing satisfactorily for the Liverpool meeting. 360 applications for tickets had been received up to the beginning of June, a number of applicants having asked to be accommodated in halls of residence. Invitations to be present at the opening session have been accepted by the lord mayor of Liverpool and the mayors of Birkenhead, Southport and Wallasey. At the symposium session Dr. J. M. Johnston and Mr. B. J. Thomas are co-operating with Professor A. D. Macdonald in presenting opening papers on the subject "Drug Addiction: The Rôle of the Pharmacist in its Detection and Prevention." The opening paper at one of the professional sessions is being given by Mr. Nicholas Herdman on "The Employee Pharmacist." At the

other session there will be a further discussion on the report of the Committee on the General Practice of Pharmacy. An invitation to visit Cardiff during the week beginning September 6, 1965, has been received. It will be submitted to the annual meeting in Edinburgh in 1964.

Medicines in Hospitals

REPORT OF A GERIATRIC STUDY

A NUMBER of recommendations as to the issue and administration of drugs and medicines to hospital in-patients are made in a report, *An Investigation of Geriatric Nursing Problems in Hospital*, published by the National Corporation for the Care of Old People (price 12s. 6d.). To gather information a study of medicine rounds was made in five wards. The results are in some respects specific to geriatric cases, in which the patient's co-operation in swallowing drugs and conforming with directions is not always forthcoming. Other recommendations made might be considered relevant to all hospitals. It is suggested, for example, that on a patient's treatment card oral medicinal prescriptions should be made distinct from other forms of prescribed treatment. Medicines to be given on certain days should have the days specified, e.g., Monday, Wednesday, Friday, instead of "three times weekly." Prescriptions should be legible (block lettering is suggested) and current treatments uninterrupted by cancellations. A copy of the daily pharmacy requisition should be retained by the wards for reference. Greater care should be taken that medicines are available for morning medicine rounds, and a system should be devised whereby patients' treatment cards do not leave the ward. Under the heading "Administration of Medicines," the report observes that some elderly patients have difficulty in swallowing tablets, and that some tablets cause discomfort to the patient and wastage and considerable expenditure of nurse-time. Medicines for elderly patients are recommended to be available in liquid form when possible, preferably in pleasant-tasting syrups. "Medicines for elderly patients require to be given the same considera-

tion as medicines for children. Tablets intended to be dissolved in the mouth should always be accompanied by written instructions to that effect."

Pharmaceutical Terms

A GLOSSARY IN FIVE LANGUAGES

THE Council of Europe, in Strasbourg, has published a glossary of pharmaceutical terms in five languages—English, French, German, Italian and Dutch. It has been prepared by a subcommittee on pharmaceutical questions of the Public Health Committee working, originally, under the auspices of Western European Union and now operating under "Partial Agreement" arrangements as a committee of the Council. It being a "first venture or pilot enterprise," the Council welcome suggestions for improvement or indications of omissions.

Anglo-Japanese Trade

REPORT OF MISSION'S VISIT

THE published report of the British trade mission which visited Japan in April says that much more trade will be possible in a wide range of materials and manufactures as Japan's trade is progressively liberalised. If British commerce and industry will seize the opportunities for developing mutually advantageous trading arrangements, Japan may well become a valuable trading partner rather than a trade rival. Discussing Anglo-Japanese trade relations, the report reviews the present position of annual import and export quotas. British manufacturers, it says, should make use of registration facilities in Japan. So far as patent and trade mark protection is concerned, the manufac-



LONG SERVICE RECOGNISED: Mr. George Graham receives a silver salver from Mr. Harold G. Moss (chairman, National Pharmaceutical Union). See p. 54.

turer has the right to legal action in Japan only if they have been registered there. Medicines are not allowed to be patented. In exporting "know-how" and in negotiating licensing arrangements and joint ventures, the report says that British manufacturers have been generally backward while many in other countries have been actively exploiting valuable sources of revenue. Copies of the report are available from the Birmingham Chamber of Commerce, price 10s., or from the London Chamber of Commerce, 69 Cannon Street, London, E.C.4.

Drive against Diabetes

356 CASES CONFIRMED IN TEST CITY

DURING May the adult population of Bedford was asked by the city's health department to participate in a campaign to detect cases of unsuspected diabetes (see *C. & D.*, May 19, p. 536). Out of a total of 38,000 invited to supply a specimen of urine for testing, 25,700 complied; sugar was detected in 1,046 cases. Glucose tolerance tests on 952 of those suspects showed 356 confirmed diabetics, all of whom were hitherto unaware of their condition, and 250 borderline cases. Those latter persons are to be given regular medical checks so that any worsening of their condition can be remedied promptly. Dr. W. J. H. Butterfield (professor of clinical medicine, Guy's Hospital Medical School), who directed the operation in collaboration with Bedford's medical officer of health (Dr. C. L. Sharp), considers that the findings indicate an incidence of hidden diabetes in the United Kingdom of about 350,000.

A Thalidomide Lawsuit

PROCEEDINGS STARTED IN GERMANY

A CIVIL suit has been lodged in Frankfurt, Germany, against Chemie Grünenthal, G.m.b.H., who until recently manufactured and marketed thalidomide preparations in that country. Inquiries in Aachen might lead to proceedings being taken in that town also. It is understood that both investigations are being assisted by an association of persons who claim they are victims of the drug. The report, which appeared in the *Observer*, July 15, mentions that German medical authorities estimate that about 3,000-4,000 deformed babies may have been born there following thalidomide therapy.

Dangerous Drugs

A DOCTOR'S AUTHORITIES RESTORED

THE authorities to possess, supply and prescribe Dangerous Drugs have been restored to John Bodkin Adams, M.B., B.Ch., 6 Trinity Trees, Eastbourne. Notice to that effect appeared in the *Edinburgh* and *London Gazettes* dated July 10 and 11 respectively.

Czech Goods on Show

INDUSTRIAL EXHIBITION AT OLYMPIA

GOODS on display at a Czechoslovak Industrial Exhibition at Olympia, London, July 16-28, cover a wide field, with emphasis on machinery and glassware. The pharmaceutical industry is repre-

sented by Chemapol which, though not showing any goods, has well-produced booklets available and assistants who can answer any queries, including price queries. A range of cine cameras and

slide projectors (35 mm. and subminiature) are displayed by Kovo. The stands are arranged on the Eastern European pattern and visitors follow a one-way route round them.

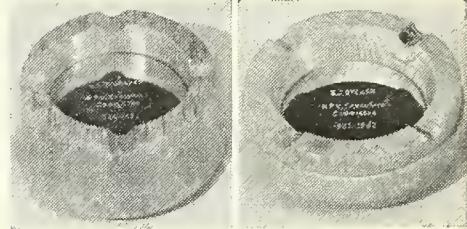
UNIQUE RECORDS OF SERVICE

Presentations by N.P.U. and Contractors' Committee

AT an informal dinner recently in London, guests of honour were Messrs. Sidney J. Stearn and G. H. M. Graham, O.B.E. The hosts were the members of the National Pharmaceutical Union Executive and Central N.H.S. (Chemist Contractors) Committees. Mr. J. Wright (secretary), and other members

Committee, there had been battles large and small, but the war continued. He wanted Mr. Graham to know how much the Committee had appreciated his unfailing services year after year.

MR. D. E. SPARSHOTT, supporting the toast, expressed on behalf of the Company Chemists' Association and the



At left, two views of one of the specially cast bell mortars and, above, the ashtrays presented to Messrs. Graham and Stearn.

of the National Pharmaceutical Union executive staff were also present. Messrs. Clifford Orrell (chairman, N.P.U.) and Harold G. Moss (chairman, Central N.H.S. (Chemist Contractors) Committee, presided jointly. The toast to Mr. Stearn was proposed by MR. W. J. TRISTRAM, Mr. Stearn's successor in the office of treasurer to the N.P.U. and his fellow member of the N.P.U. Executive for twenty-five years. Mr. Tristram, in a speech enlivened by apposite literary references, expressed appreciation of Mr. Stearn's unique record of service to the N.P.U. over the past thirty-two years, as a member of the Executive Committee, as vice-chairman and chairman and, in particular, as treasurer for twelve years. He had formed many warm friendships with his fellow members of the Executive Committee who all regretted very deeply and sincerely the ending of the long association.

MR. H. B. COULSON, supporting the toast, endorsed Mr. Tristram's expression of the appreciation and high regard which Mr. Stearn had merited and received. He spoke of his own personal regard for Mr. Stearn, who had always been an upholder of the dignity of his calling. By the example of his own work he had inspired action in others and had made a unique contribution to pharmacy.

Duties of a Chairman

MR. T. HESELTINE, proposing the toast to Mr. G. H. M. Graham, spoke of Mr. Graham's many hours of work and travelling, and frequent absences from home undertaken in the carrying out of his duties as chairman of the Central N.H.S. Committee. No one but the members of Mr. Graham's own family would realise the amount of time and interest he had devoted to the work, and the personal sacrifices he had made for the welfare of pharmacy. During the years of Mr. Graham's chairmanship of the Central N.H.S.

Co-operative Union, Ltd., representatives on the Central N.H.S. Committee, sincere appreciation of the valuable work that Mr. Graham had done for pharmacy.

MR. STEARN, in reply, spoke with obvious deep feeling of the friendships he had formed through the years with his fellow members of the N.P.U. Executive Committee. He had always found an eager desire to serve pharmacy both in the Executive and in the staff of the N.P.U.

MR. GRAHAM expressed with simple sincerity his appreciation of the friendship, help and goodwill extended to him by the members of the Central N.H.S. Committee, the Executive Committee, and the staff of the N.P.U. He regretted that he would no longer be taking an active part in the N.P.U. battle.

Two Mortars and a Salver

MR. ORRELL, on behalf of the members of the N.P.U. Executive, presented English bell metal mortars to both gentlemen. MR. MOSS, on behalf of the Central N.H.S. Committee, presented a silver salver suitably engraved to Mr. Graham. The salver is to be inscribed with the signatures of all Mr. Graham's former colleagues on the Central N.H.S. Committee.

After MR. WRIGHT had spoken briefly on behalf of the staff at Mallinson House, MR. J. McCLENAHAN, on behalf of the executive staff of the N.P.U., presented ashtrays in oak and brass, suitably engraved, to Mr. Stearn and Mr. Graham. The oak, he said, was from former panelling of Mallinson House, and would therefore have pleasant associations. He added that Mr. Stearn and Mr. Graham might also be interested to know that the bell metal mortars had been specially cast by one of the only two remaining bell founders in England, and the founder's mark upon them had been in use for about 400 years.

NEWS IN BRIEF

THE nineteenth (1962) edition of the Register of Orthoptists has been published by the Board of Registration of Medical Auxiliaries.

AN international authority to test and issue certificates of safety for new drugs has been advocated by the chairman of the poisons advisory panel of the State Pharmacy Board of Victoria, Australia.

NEARLY 1,400 delegates attended the third Congress of the European Federation of Chemical Engineering at Olympia, London, W.14, which ended on June 29, and at which twenty-nine countries were represented by 414 delegates.

LONDON Co-operative Chemists, Ltd., are not taking part in a scheme started by London Co-operative Society, Ltd., on July 16, by which managers of the various branches are being allowed to adjust prices of their goods to compete with other local shops, chain stores and supermarkets.

WORLD Health Organisation technical reports Nos. 232, 233, 236 and 237 deal respectively with the chemotherapy of cancer; filariasis (*Wuchereria* and *Bugia* infections); the planning, organisation and administration of a national health laboratory service and with requirements for the preparation of poliomyelitis vaccine (oral).

ON July 4, forty-three members of the London section, Royal Institute of Chemistry, visited the manufacturing plant of Pfizer, Ltd., at Sandwich, Kent, where they were shown the process of antibiotic production, the organic unit for the manufacture of steroids and synthetic drugs, the pilot plant, and the ointment and liquid preparation area.

OFFICERS and council members of the Association of Consulting Scientists elected recently were: *Chairman*, Dr. M. Barent; *Vice-chairman*, F. G. Sarel Whitfield; *Treasurer*, Dr. G. W. Ferguson; *Members of Council*, Dr. H. H. Chambers, Dr. G. P. L. Miles, Dr. R. F. Milton, Mr. H. Pritchard, Mr. A. N. Worden. *Secretary*, W. H. Stevens, Park House, Hawthorne Road, Bromley, Kent.

PERCENTAGE changes in pharmacy sales of 161 representative Co-operative Societies for the four weeks ended April 28, compared with those for the similar period in 1961 were: Midland, plus 3.16; Northern, minus 8.04; North-east, minus 0.82, North-west, minus 0.22; Scottish, minus 5.09; Southern, plus 1.78; South-west, plus 20.58; West, minus 4.52. Percentage change for Great Britain was plus 0.18.

SPORT

Golf.—LIVERPOOL CHEMISTS' GOLFING SOCIETY. To mark the 1962 British Pharmaceutical Conference, and in respect of the *Edmund White Golf Trophy Competition* to be held at the Woolton golf club on September 13, the Society have presented the following additional prizes: 1, Prize for the best scratch score; 2, Prize for the best net score over first nine holes; 3, Prize for the best net score over second nine holes; 4, Prize for the best net score returned by a lady competitor. The prizes are to be presented on the day of the competition.

THE CHEMIST AND DRUGGIST

TOPICAL REFLECTIONS

By Xrayser

Rebuff

The only consolation left to hospital pharmacists, now presented with the Industrial Court award of a 5 per cent. increase (p. 30), is that the Court has recognised—albeit grudgingly—that they have been underpaid. In that respect they have fared rather better than their colleagues in the contractor service, who suffer periodic amputations without the consent of the patient. The disquieting feature of the new salary structure is that, unlike the oncost cut imposed on the contractor service by the Ministry, the 5 per cent. increase is the decision of an impartial body acting in the capacity of arbiter. It is not unlikely that any body charged with taking decisions in the present climate of economic duress is bound to be influenced by the prevailing wind, and it may be that the timing was unfortunate, though the staff side of the Whitley Council are free from all blame in that regard. The claim was lodged as long ago as May 9, 1961. Changes at the Treasury a month or two earlier might have influenced the decision. As it is, the figure of $2\frac{1}{2}$ per cent. seems to have become sacred, for that is the difference between what the management side offered to one grade and the figure decided upon by the Court. The fact must be faced that the claims presented on behalf of the pharmacists failed to impress the management side under Whitley Council machinery, and did not convince the Industrial Court. Yet I find some of the arguments of the management side lacking in logic or fairness. It appears, from Hospital Pharmacy Forum (p. 44), that the management side was prepared to concede, to all grades except the basic, $2\frac{1}{2}$ per cent., but offered 5 per cent. to the basic grade on the grounds that there was a greater shortage there. That does not impress me with its soundness as a bargaining argument, but rather as an example of justice being ousted by expediency.

In the balance

While the economic effects of the Industrial Court's decision apply only to those in the hospital service, we must not lose sight of the fact that what has been under review is not only the salary structure of hospital pharmacists. Judgment has been passed on pharmacy as a whole—its status, its professional aspirations, its training and its educational policy. For, with the exception of the award of an additional $2\frac{1}{2}$ per cent. to the higher grades, it must be accepted that the arguments advanced by the management side have found endorsement by the Court. For example: "The length of the pharmacists' training no doubt confirmed that theirs was a skilful calling, but that did not in itself provide any justification for equating pharmacists' earnings with those of the professions whose period of training was of the same duration." The distinction between "profession" and "calling" may have no significance, but what does "in itself" mean? The expression suggests that there are other factors, but they have not been specified—perhaps for good reasons, for ambiguity is not without its uses in official statements. The Council of the Pharmaceutical Society cannot ignore the implications of the decision, which gives added ammunition to those who would like to see the position of pharmacy in a National Health Service surveyed on broader lines.

Fifty years

The historical survey entitled "Fifty Years of Health Services in Britain" (p. 41 *et seq.*) is a valuable contribution to our knowledge. There are still with us a considerable number who have experienced the hopes and aspirations, together with the disappointments and setbacks, of that period, and much has been accomplished in the period 1912-62. Socially we British pharmacists have much to be proud of and, despite our personal feeling of frustration at the present time, we cannot blind ourselves to the fact that the small beginnings of 1912 have blossomed into a social measure that is of great benefit to the country as a whole. It is a pity that a certain tarnishing of the broad principles should have been permitted to creep in, and that once more finance has reduced the brightness of the picture, obscuring the original concept of a health service.

Thalidomide on "Panorama"

COULD THE TRAGEDY HAVE BEEN AVOIDED?

THE B.B.C.'s "Panorama" programme on July 16 included a discussion on whether the introduction of new drugs should be supervised by a new, independent national body. A filmed interview by Ludovic Kennedy with seven doctors was followed by a discussion between Mr. Kennedy and Dr. Andrew Wilson (professor of pharmacology and therapeutics, University of Liverpool) and Mr. J. C. Hanbury (chairman, Association of British Chemical Manufacturers). Ludovic Kennedy was introduced by Richard Dimbleby, who said: "The litter which you now see on my desk is composed of the drug samples and literature about the drugs sent to one doctor, an ordinary G.P., in the course of a single week by the drug manufacturers. It is, in fact, a sample of the bombardment of the doctors which goes on. How can any doctor, you may ask, be sure that the drugs that are sent him like this are safe, or that they have been independently tested? You will have been shocked by the revelation of the fact that hundreds of babies have been born deformed—some of them without arms—simply because their mothers, in the early stage of their pregnancy, took a new drug called thalidomide as a sedative. Thalidomide was withdrawn before Christmas 1961, but by the course of nature there are still some children yet to be born who may, perhaps, be born deformed for the same original reason. This whole business is coming up for discussion by the British Medical Association, whose conference opens on July 19, and one suggestion is that a new independent national body should be set up to supervise the introduction of new drugs."

LUDOVIC KENNEDY: Doctor, when you prescribe a new drug, what guarantees have you got that it's going to be safe?

FIRST DOCTOR: I have no concrete guarantees other than what I know of the drug, what I've read about it, and what I know about the group of drugs it comes from.

L.K.: Do you get a great deal of pressure from the drug companies?

FIRST DOCTOR: A terrific amount of pressure. We're inundated with circulars. My waste paper basket each morning is full of them. It's really high pressure big business.

L.K.: Is this a desirable thing?

FIRST DOCTOR: Most undesirable, and most doctors resent it highly.

SECOND DOCTOR: I get about a dozen advertisements each day, and one or two representatives a week trying to put the best case forward for their own drugs. It's up to me to shield myself against that by taking other publications, reading in the journal, and so on.

THIRD DOCTOR: One gets a tremendous amount of literature pouring through the letter box which is entirely unsolicited.

L.K.: How much literature—say, how much in a week?

THIRD DOCTOR: I should think certainly thirty or forty circulars at least. I never read any of it. My secretary takes it out of the envelopes and it's put in a box.

L.K.: Is it right that doctors should be subjected to this kind of high-pressure salesmanship?

THIRD DOCTOR: No, I think it's a terrible nuisance and I won't see any representatives of drug companies any longer—except for two or three who I think are worth while. The rest of them are hopeless.

FOURTH DOCTOR: It depends very much on how it's presented. Just to be reminded every morning of the name of a new drug is useless. To be given some concrete information about it is valuable—so long as one's always careful to check that up.

L.K.: What kind of reforms would you like to see, if any?

FOURTH DOCTOR: I would like to see the medical profession and pharmaceutical professions get together and form a joint consultative body, by which reports could be received of adverse effects. Some effects are unexpectedly good and those, too, would be received. And I would like to see all those reports centralised in one office, so that one group of people see all the reports. If that had been in existence in 1958 I believe the dangers of thalidomide would have been picked up more quickly.

FIFTH DOCTOR: I think that the research should be done by a reputable group of doctors—perhaps attached to one of the teaching hospitals, or a post-graduate institution.

SIXTH DOCTOR: I think the main safeguard would be an independent body for testing drugs.

SEVENTH DOCTOR: I would suggest Government legislation under which nobody would be allowed to put a drug on to the market before it was passed by a committee set up by the Government and consisting of doctors and pharmacists, with high standards laid down. There is nothing at all to prevent me from mixing a few chemicals in a bath-tub, putting them on the market, making all sorts of extravagant claims.

L.K.: Professor Wilson and Mr. John Hanbury, I want to ask you first whether, in your view, the thalidomide tragedy could have been avoided?

PROFESSOR WILSON: I don't think it could have been avoided. It might have been detected at an earlier stage.

MR. HANBURY: I agree with Professor Wilson.

L.K.: But is it not a fact that three years elapsed between the drug's coming into general use and the discovery that it was dangerous? If a sort of information centre had been set up, as some of these doctors suggested, then it would have been detected a good deal earlier?

PROF. W.: I think that might well be so, but if the information had been collected from various parts of the world—not just Great Britain.

L.K.: Several people have suggested that such a centre could be set up—would you support such an idea?

PROF. W.: Yes, I would support that—I think it's a very valuable suggestion.

L.K.: Are you doing anything about it at the moment?

PROF. W.: Well, in April we had a conference with members of the pharmaceutical and medical professions and at that conference one of the participants made the suggestion that a central drug advisory board might be established.

L.K.: Mr. Hanbury, would you support such a centre?

MR. H.: In principle I think the industry from which I come would be only too pleased to support any measures taken to improve the facilities available for the clinical testing of new drugs. How far we might support particular plans depends upon those plans, and at the present time it hasn't got beyond the preliminary stage of talks. A great deal of quiet discussion is going on behind the scenes between prominent people in our industry and important people from the medical profession, and this talk, I'm sure, is going to be fruitful. I'm most reluctant to say anything that could prejudice the successful outcome of those discussions.

L.K.: Professor, are you satisfied that all drugs that come on the market are tested as thoroughly as they can be?

PROF. W.: Oh no. I think it is a valid criticism that many drugs that are made available to the medical profession could well be tested much more adequately than they are.

L.K.: What have you got to say to that criticism, Mr. Hanbury?

MR. H.: Clearly there must be drugs from time to time that don't receive as much clinical testing as we would like. It is essentially a practical problem. We in the industry are conscious of the difficulty on many occasions of getting adequate clinical testing of drugs and it isn't for lack of any desire on our part. The sheer problem within the hospitals is of busy doctors' finding sufficient patients and devoting sufficient time and energy on top of their everyday duties to give us answers to the difficult questions we require of them. If anything could be done to improve the facilities available, that would be welcomed by the Ministry.

L.K.: Does that answer your point, Professor?

PROF. W.: Yes. I think here the medical profession requires more doctors who have the time and the aptitude for testing drugs.

L.K.: Now, Mr. Hanbury, it has been reported in the *Observer* recently that Lord Cohen (chairman of the Ministry of Health committee on new drugs) has said that much of the information that doctors get from drug companies is biased, unreliable and misleading. What would you say to that?

MR. H.: Of course, it's difficult to give a constructive answer to a somewhat general accusation of that kind, but one has to remember that there are a great many firms—many of them British subsidiaries of companies in overseas countries where their whole conventions and ideas on the subject are different from ours. But it is important to keep a sense of proportion about this. There are around 50 million for whom we are manufacturing pharmaceutical products, but all our effort has to be focused through the 50,000 or so doctors. It is, of course, contrary to the etiquette of the medical and pharmaceutical professions to go direct to the public.

L.K.: And general feeling among the doctors, Mr. Hanbury, from the film we saw, is that you do overdo it a bit.

MR. H.: That again is a generalisation.

L.K.: Would you say, Professor, there's too much advertising?

PROF. W.: Yes. I think that makes it all the more important that what is given to the doctors should be thoroughly reliable and much more concise than it is at present.

MR. H.: On that I would say that the real sanction is the economic sanction. The preparation of literature and its dissemination is costly, and one

doesn't want to waste money. There is a conscious effort by the industry to try and reduce this volume, and I think it has been materially reduced, to the benefit of everyone, including ourselves.

PROF. W.: It has been reduced but it's still pretty excessive.

L.K.: Mr. Hanbury, can we take it that, since the thalidomide tragedy, all new drugs coming on to the market will be tested against abnormalities of the foetus in pregnant women?

MR. H.: I'm pretty confident in answering that question. Directly this thalidomide phenomenon was appreciated, it was realised immediately that some new thinking was called for in respect of the preliminary safety testing of new drugs. The thalidomide story was unique. It was something that had never happened before, and we realise now it has happened that every new drug, without exception, that could conceivably have any such action has got to be screened—using animals, of course, in the first place.

L.K.: Would you approve of that, Professor?

PROF. W.: Indeed yes. I think every doctor who uses a new drug will probably pose that question to whoever tries to sell it to him.

L.K.: Thank you very much, gentlemen.

MOLECULAR BIOLOGY

"Open day" demonstrations at a Cambridge laboratory

THE Medical Research Council held an "open day" for Press, medical and scientific correspondents at its new £300,000 Laboratory of Molecular Biology, Hills Road, Cambridge, on July 10. The establishment of the Laboratory, which was opened by the Queen on May 28, has enabled separate M.R.C. groups working in the molecular biology field to pool their forces under the chairmanship of Dr. M. F. Perutz (formerly director of the Molecular Biology Research Unit at the Cavendish Laboratories, Cambridge), who made the major discovery in 1953 that some protein structures (principally, so far, myoglobin and haemoglobin) could be elucidated by isomorphous replacement with heavy atoms.

The demonstrations arranged to illustrate the work of the Laboratory were grouped in three categories: Structural studies; molecular genetics; and protein chemistry.

The division of structural studies has centred its attention mainly on horse haemoglobin and sperm whale myoglobin, and large sections of the aminoacid sequences in both proteins have been determined using x-ray diffraction methods. Work also began recently on the reduced form of human haemoglobin. Investigations are in progress (and well advanced) on the structures of chymotrypsin and insulin. Drs. A. Klug and J. T. Finch of the division have shown that the small "spherical" viruses having molecular weights of five to ten millions all possess icosahedral symmetry, and that the virus protein consists of a shell comprising a constant number of sub-units.

The molecular genetics division illustrated some of the experiments it has carried out to gain further knowledge of the "genetic code," using certain genes of the T4 bacteriophage and its host, *Escherichia coli* B. The "genetic code" has been defined as those rules that govern translation of the nucleotide sequences in protein.

The work of the division of protein chemistry is mainly directed at problems connected with aminoacid sequences in proteins, and with development of new techniques in the field.

Because knowledge of enzyme structures is expected greatly to facilitate the understanding of how biological reactions are catalysed, work is in progress on the amino-acid sequence of chymotrypsin, the enzyme mechanism of which has been closely studied. Though it is a larger protein than any whose structure has been determined (consisting of 220 residues), already about 75 per cent. of its amino-acid sequence has been elucidated.

The main technical limitation to the work are the available methods, particularly the methods for fractionating the large peptides resulting from enzymatic hydrolysis. Considerable use has been made of one technique—high-voltage paper ionophoresis—at the laboratory, a special room having been designed for the purpose.

In addition, as it is often advantageous to carry out small-scale work, particularly where paper ionophoretic methods are employed as the main fractionating procedure, a fluorescent method of analysis is being developed that employs dimethylamino naphthalene sulphonyl chloride to label amino-acids and peptides. The brightly fluor-

escent derivatives produced are detectable, under strong ultra-violet light, in such minute quantities that as little as 2 microgm. of protein can be usefully investigated.

Another small-scale method being employed and developed at the Laboratory involves isotopic techniques. A demonstration illustrated the use of "labelled" di-isopropyl fluorophosphate (DF³²P) to study amino-acid sequences at the active centres of certain enzymes (elastase, subtilisin, mould protease and acetylcholinesterase). The DFP reacts specifically with a unique serine residue in the enzyme enabling it to be labelled.

MANUFACTURERS' ACTIVITIES

Flat Glass by "Floating."—Pilkington Bros., Ltd., St. Helens, Lancs, announce that a new £5 million float glass tank—the largest the company has ever built—is now in operation. It is claimed to "spell the doom of the traditional grinding and polishing method for all major purposes." The tank took two years to build and solves the problem of making thicknesses other than $\frac{1}{4}$ -in.

Flasks for Rescue Workers.—Vacco, Ltd., Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1, announce that Vacco de Luxe vacuum flasks are being used in underground rescue work by the Cave Rescue Organisation which is affiliated to the Mountain Rescue Committee of Great Britain. An order has been placed for several dozen of the flasks, a sample consignment having been subjected to trials under fairly severe conditions in a difficult pothole.

"Miss Tasmania" in Britain.—Each year a "Miss Australia" quest raises money for handicapped children, particularly spastics. In eight years the quest has contributed £80,000 to the welfare of spastics, retarded children, blind and deaf, and cripples. The 1962 winner in Tasmania was Miss Patricia MacMichael, only daughter in Mr. and Mrs. Tony MacMichael's family of five. Miss MacMichael recently visited the farm and laboratories at King's Langley, Herts, of Ovaltine and Wander pharmaceutical products. In the picture she is seen talking to Mr. J. Gallagher, M.P.S. (production manager, pharmaceutical division).



Miss Tasmania, 1961, talking to Mr. J. Gallagher, M.P.S. (production manager, pharmaceutical division) in the tabletting section of the Wander Laboratories at King's Langley, Herts.

LEGAL REPORTS

A public apology

An acknowledgement that a news item published in *Chemical Products and Aerosol News*, March 1962, was not accurate and was defamatory of Merck & Co., Inc., Rahway, New Jersey, U.S.A., and Compagnie Chimique Merck, Sharp & Dohme, S.A., was made in an apology in the High Court on July 18 by John Trundell (Publishers), Ltd. The Counsel for the plaintiffs said the companies were engaged in litigation in the Federal District Court of Connecticut and the Southern District Court of New York against a series of companies all associated with Robert Aries, and litigation was being carried on against Robert Aries and the companies associated with him in French and Swiss courts involving large sums of money and issues of great complexity. The outcome of the litigation would be a matter of great interest and importance to the whole chemical industry throughout the world. The defendants published what they honestly believed to be a factual account of some of the pending litigation. The defendants believed it to be a report of proceedings in a public court whereas in fact as they subsequently discovered it was not.

COMPANY NEWS

Previous year's figures in parentheses

ALLEN & HANBURY'S, LTD.—Dr. David Jack, B.Sc., F.P.S., F.R.I.C. (director of research) has been appointed a director of the company.

FISONS, LTD.—The company have completed negotiations with Mr. A. J. Ross, Glasgow, for the acquisition of his business as a collector of and dealer in animal substances for pharmaceutical purposes. The Glasgow company employs some thirty-five people and is similar to that of a Fisons subsidiary, Gland Supplies, Ltd., Manchester. A new company with the title Medlock Holdings, Ltd., has been formed to co-ordinate Fisons' interests in that trade. It will act as a management company for Gland Supplies, Ltd., and A. J. Ross, both of which will continue to operate in their own names. The managing director is Mr. D. Hayward, who has long been associated with Gland Supplies, Ltd.

LAPORTE INDUSTRIES, LTD.—No matter where the group's efforts led, Laporte Chemicals, Ltd., with its staple product, hydrogen peroxide, would remain a cornerstone in its structure, said Mr. P. D. O'Brien (chairman) at the group's annual meeting. Laporte Chemicals, he said, was enjoying a "healthy" trade and was reaping the benefit from past heavy capital expenditure, which was enabling it to produce competitively. The intense competition in the main products of Howards & Sons, Ltd., continued and some of their chemicals were being marketed in the face of low prices from both United Kingdom and overseas sources. There was world overproduction in some lines and, until the market settled down, those products would be only marginally remunerative. When the developments planned for Messrs.

Howards had been completed, they were expected to become more competitive in some existing fields and more soundly based.

BOOTS PURE DRUG CO., LTD.—Figures for the first three months of the current financial year showed sales increases in all sections of the business said Mr. Willoughby R. Norman (chairman) at the annual meeting of the company on July 12. The increase was not a big one, he said, because "we were up against big figures on the early part of last year and the growth of the economy has not resumed as quickly as was generally anticipated." The fortunes of the company were tied up very closely with the prosperity of the community as a whole. He expected that as the year proceeds business would improve and sales volume improve with it. The final dividend of 8 per cent. was approved, making a total for the year of 12 per cent. Answering a shareholder who asked if the rate of development could be speeded, Mr. Norman said they had just decided to pump a further sum into the development of their retail shops. After the meeting, he added that £100,000 was to be spent in the remaining nine months of the current year, additional to the money already earmarked, and it was entirely for a quick refit of many small shops on a temporary basis.

Receiving Order

On a creditor's petition, a receiving order in bankruptcy has been made against Maurice Alterman, M.P.S., trading as Salmon & Son, chemists, Western Road, Hove.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

T. & J. WALSH, LTD. (P.C.)—Capital £1,000. To carry on the business of chemists, etc. Directors: Thomas Walsh and Jean Walsh, M.P.S., 217 Kingsway, Burnage, Manchester, 19.

JOHN L. MASON (CHEMISTS), LTD. (P.C.)—Capital £1,000. To carry on the business of dispensing chemists, etc. Directors: John L. Mason, M.P.S., and Joyce M. Mason, R.O.: 4 High Street, Herne Bay.

K. H. ROSE, LTD. (P.C.)—Capital £20,000. To carry on the business of chemists and druggists, etc. Directors: Kenneth H. Rose, M.P.S., and Irene R. Rose, R.O.: 64 Station Road, Upminster.

ROBERTSON BOND, LTD. (P.C.)—Capital £2,000. To carry on the business of chemists, etc. Directors: Alan R. Bond, M.P.S., Ann S. Bond and Herbert B. Bond, M.P.S. R.O.: 28 Bowes Avenue, Margate.

SOUTHALLS (SALES), LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of surgical and sanitary appliances. R.O.: Rockville Road, Saltley, Birmingham, 8.

EMMANJAY COSMETICS, LTD. (P.C.)—Capital £100. To carry on the business of retailers and wholesalers of cosmetics, etc. Directors: Ronald J. Carr and Mary A. Hays, R.O.: 73 Leadenhall Street, London, E.C.3.

THERA CHEMICAL, LTD. (P.C.)—Capital £1,300. To carry on the business of manufacturers of cosmetics, soaps, etc. J. R. Little, Hoe Mill, Woodham Walter, Maldon, Essex (director, L.P. Holding Co., Ltd.), is the first director.

GARSALLE (U.K.), LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Shaun M. A. Lowe and Graham G. Wulff, R.O.: 1 Broad Street Place, London, E.C.2.

RICHMOND AEROSOLS, LTD. (P.C.)—Capital £4,000. To carry on the business of fillers of aerosol products and all types of pressurised packaging; particular for use in the cos-

metic trade, etc. Directors: Charles B. Featherstone, Dorothy B. Featherstone, Olive A. Winnett and Donald Winnett, R.O.: 131 Burton Road, Withington, Manchester, 20.

BUSINESS CHANGES

MR. JOHN FINBAR SHINE, M.P.S.I. Macroom, has opened a pharmacy in Main Street, Wicklow, Eire.

INTERNATIONAL FLAVORS & FRAGRANCES I.F.F. (GREAT BRITAIN), LTD., are removing to Crown Road, Southbury Road, Enfield, Middlesex, on August 7.

MR. W. J. MORGAN, M.P.S., has acquired the pharmacy of S. E. Birkumshaw, 238 Victoria Avenue, Southend-on-Sea, Essex. He will continue to trade as S. E. Birkumshaw, M.P.S.

THE northern regional sales office of Imperial Chemical Industries, Ltd.'s, pharmaceutical division is removing to Ship Canal House, King Street, Manchester, 1 (telephone: Deansgate 2424), on July 31.

MR. K. J. SHENTON, M.P.S., is vacating the premises at 60 Katherine Street, Penny Meadow, Ashton-under-Lyne, on August 1, and later opening a pharmacy at 120 Withycombe Village Road, Withycombe, Exmouth, Devon.

SHANDON SCIENTIFIC CO., LTD., have moved their head office and sales departments to new, larger premises at 65 Pound Lane, Willesden, London, N.W.10 (telephone: Willesden 8671). Works and service departments remain at 65 Southern Row, London, W.10.

ROBERT WHITELAW (NEWCASTLE), LTD., Klintex House, 44 Great North Road, Newcastle-on-Tyne, 2, have acquired the surgical and drug departments of Brady & Martin, Ltd., Cheviot View, Newcastle-on-Tyne, 6. Brady & Martin, Ltd., have retained their scientific apparatus and laboratory and industrial chemicals departments.

Appointments

CHARNWOOD LABORATORIES, Loughborough, Leicestershire, have appointed Mr. John Anthony Finnane branch manager of the new Rexall factory at Davitt Road, Inchicore, Dublin, which is expected to begin operations on September 1.

A. H. ROBINS CO., LTD., Foundry Lane, Horsham, Sussex, have promoted Mr. S. Greevy (medical representative in Scotland) to be area supervisor in their northern division and Mr. F. J. Howe (medical representative in Devon and Cornwall) to be area supervisor of the western area of the southern division.

PERSONALITIES

MR. A. J. GRIGG, who qualified as a pharmaceutical chemist in 1959, from the school of pharmacy, Leicester College of Technology, has been inducted as pastor of Countesthorpe, Leics, Baptist Church, following a course lasting three years at Spurgeon's College, London.

MR. THOMAS REID, M.P.S., who was president of the Pharmaceutical Society 1960-61, received the Honorary

Fellowship of the Heriot-Watt College, Edinburgh, on July 10. Mr. Reid studied at the Heriot-Watt College and passed the Chemist and Druggist Qualifying examination in 1930.

MR. W. G. F. SUTTON, J.P., M.P.S., who is mayor of Ryde and a past chairman of the Isle of Wight Branch of the Pharmaceutical Society has been elevated to the aldermanic bench. The new alderman is the second pharmacist to be so honoured as Alderman W. Ramage (past-secretary of the branch) became an alderman about two years ago.

DR. J. A. F. SPRENT, London-born professor of parasitology at the University of Queensland (Australia) Veterinary School, has received the Henry Baldwin Ward award from the American Society of Parasitologists for his outstanding research on parasites that cause important diseases in men and animals. The award, which includes a medal and an honorarium of \$1,000, is provided annually by Parke, Davis & Co.

MR. G. A. F. SLACK, M.P.S., who is representative in Sussex and Hampshire for J. M. Loveridge, Ltd., was successful in winning the National Merlin Rocket Sailing Championship held at Torquay recently. Out of 155 entries in the highly competitive 14-ft. sailing dinghy class, Mr. Slack was placed first, second and third in the three races which counted for the championship trophy, thus winning the cup on aggregate points.

DR. B. A. WILLS, B.Pharm., M.P.S., A.R.I.C., who has been appointed head of the control division of Allen & Hanburys, Ltd., Ware, Herts, was attached to the School of Pharmacy, University of London, from 1951-57 as lecturer in pharmacetics. In 1957, he joined the staff of Allen & Hanburys, Ltd., and, after a short period spent in the various research sections at the Ware factory, was appointed head of the research and control department of Allen & Hanburys (Africa), Ltd., Durban. During his stay in South Africa, Dr. Wills was an examiner in pharmacetics for the South African Pharmacy Board, chairman of the scientific advisory committee of the South African Pharmaceutical Manufacturers' Association, a member of the advisory committee on pharmacy at the Natal Technical College and served on various committees of the South African Bureau of Standards. He returned to England with his family earlier this year to take up his new appointment on July 1.

DEATHS

FOX.—On June 23, Mr. Frederick Harry Fox, M.P.S., 10 Graystones Crescent, Sheffield, 11. Mr. Fox qualified in 1895.

WALSHE.—On July 6, after a short illness, Mr. James Christopher Walshe, M.P.S.I., 38 Strand Street, Skerries, co. Dublin, Eire. A native of Drumcondra, Dublin, Mr. Walshe qualified in 1931 and conducted a successful retail pharmacy in Skerries for twenty-two years. He is survived by his widow, two sons and a daughter.

WOODHOUSE.—Suddenly, on July

12, Mr. Henry Richard Woodhouse, M.P.S., Warren Avenue South, Fleetwood, Lancs. Mr. Woodhouse qualified in 1921.

WOODS.—On June 28, Mr. Joseph Woods, M.P.S., 7 Eccleshill Road, Stoneycroft, Liverpool, 13. Mr. Woods qualified in 1921.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

IN the reconstruction of the Government announced by the Prime Minister on July 13 and 16, Mr. Enoch Powell remains as Minister of Health and is promoted to the Cabinet. Miss Edith Pitt (Parliamentary Secretary, Ministry of Health), resigned and is succeeded by Mr. Bernard Braine (formerly Parliamentary Secretary to the Commonwealth Relations Office). Miss Pitt becomes a Dame of the Order of the British Empire. Mr. Reginald Maudling (former Secretary of State for the Colonies) was appointed Chancellor of the Exchequer. Mr. Alan Green, who was Parliamentary Secretary, Ministry of Labour, was appointed Minister of State, Board of Trade, and Mr. David Price Parliamentary Secretary, Board of Trade.

Hospital Drug Purchases

MR. K. ROBINSON asked the Minister of Health if in view of the judgment in the case *Geigy versus Biorex**, he would now instruct hospital authorities that they might purchase drugs from suppliers, who had applied under Section 41 of the Patents Act, 1949, for a compulsory licence to manufacture such drugs, and whose application had been allowed to proceed, and had been published in the *Official Journal, Patents*, provided that the suppliers were prepared to indemnify purchasers. MR. POWELL, in a written reply on July 18 stated "No."

[*In the High Court on June 22 the judge, Sir George Lloyd Jacob, refused to grant J. R. Geigy, S.A., an interlocutory injunction to restrain Biorex Laboratories, Ltd., selling imipramine.]

Drug Testing

MRS. F. P. A. McLAUGHLIN asked if the Minister of Health would take powers to ensure that all new drugs were tested for possible dangers if taken during pregnancy before they were available on prescription. MR. POWELL, in a written reply on July 16 stated "No."

Thalidomide

BARONESS SUMMERSKILL expressed concern about the responsibility for the welfare of children born with congenital deformities where the mother had been prescribed thalidomide under the National Health Service. She asked in the House of Lords on July 12 if the Government would not assume the financial responsibility would the Ministry ask the responsible drug company to give substantial financial help to those parents? Would the pharmaceutical industry be urged to "cover themselves with some comprehensive insurance policy" in order that "if this kind of thing recurs, the parents or whoever might be damaged might have some recompense." LORD NEWTON said that if it could be proved in a court of law that the manufacturers of thalidomide had been negligent, perhaps the court would then award damages.

BARONESS SUMMERSKILL had previously asked if the Government was prepared to assume the responsibility for the consequences of the taking of drugs that might be prescribed on the N.H.S. without the patient knowing either "the name and nature of the drug or its possible side effects." She said that the pharmaceutical services had cost £84 millions in 1961, "the highest yet. This was distributed between the drug producers and the chemists for dispensing. . . . In view of the fact that 50 per cent. of these drugs were untested or inadequately tested, if the Government refuse to accept responsibility for the irresponsible elements in the pharmaceutical industry, how are the public to be protected?" LORD NEWTON could not accept that "this considerable quantity of drugs was either not tested or inadequately tested."

BARONESS SUMMERSKILL asked if he dissented from the opinion of Professor Wilson of the chair of pharmacology at Sheffield. LORD NEWTON said he was not going to argue about what one eminent gentleman had said, "but to the best of my knowledge there is no reason for such alarm and despondency." He told LORD TAYLOR that in the testing of drugs there were two stages. The laboratory test in which animals were probably used, but however exhaustive those tests were, it was impossible to have absolute certainty until clinical trials were carried out by doctors on their patients. He had been advised that until thalidomide had been tried out on pregnant women one could not be sure that there would be undesirable side effects. He added "I really do not see what conclusion one draws from these facts except this, apparently every potent drug has some side effect or other, and it must be for the doctors who prescribe potent drugs to decide whether or not they think it appropriate to prescribe that drug for their patient." BARONESS SUMMERSKILL agreed that until the drugs were tried on pregnant women, no one knew what the results were; but after the congenital abnormalities were discovered, thalidomide was tried on pregnant rabbits and the offspring of these rabbits suffered from the same congenital abnormalities. "Does that not prove that this drug had never been adequately tested?" LORD NEWTON, "It was also tried recently on pregnant rats and there were no symptoms of deformity in the offspring."

DR. DICKSON MABON asked the Minister of Health what special steps he was taking to ensure that parents of children permanently disabled by the drug thalidomide were fully informed of the facilities for treatment within the National Health Service. MR. ENOCH POWELL (Minister of Health), in a written reply on July 16 said that it was a matter for the family doctors. They had been reminded of the facilities available.

TRADE NOTES

Sole U.K. Distributors. — E. M. Douek & Co., Ltd., 39 George Street, London, W.1, have been appointed sole distributors in the United Kingdom for Step perfume atomisers.

Distributors of a Dentifrice. — Henri L. Jaccaz & Co., 32 Shaftesbury Avenue, London, W.1, are now the sole distributors in the United Kingdom of Dr. Pierre's eau dentifrice and hold stocks of both sizes.



FOR REMOVING BEACH OILS, ETC. : Tar remover, a product of Henry C. Stephens, Ltd., now distributed by William Martindale Wholesale, Ltd., 14 Bruton Place, London, W.1.

Voucher for Shampoo. — The large-size Johnson's cotton buds (makers: Johnson & Johnson (Great Britain), Ltd., Slough, Bucks), contains a voucher entitling the purchaser to a saving of five pence on a bottle of Johnson's baby shampoo.

Distribution from Nottingham. — J. H. Haywood, Ltd., Warser Gate, Nottingham, offer a comprehensive service of supplies to retail chemists within their area. Orders may be telephoned (Nottingham 51911 by day and 52345 for night-recorded orders on Auto Tele for delivery early next morning).

NEW VETERINARY VACCINE UNIT

Output of Glaxo sheep vaccines more than doubled

GLAXO Laboratories, Ltd., have begun operations in a £150,000 unit for veterinary vaccines production and research at Greenford, Middlesex. The

Agents for Frankfurt Fair. — Official agents for the United Kingdom and Eire of the Frankfurt International Fair, September 2-6, are Lep Transport, Ltd., Sunlight Wharf, Upper Thames Street, London, E.C.4.

For Empire Athletes. — Burgoyne, Burbidges & Co., Ltd., 274 Ilford Road, London, S.E.15, have made arrangements for their Vitasun capsules (for sunburn protection) to be available to all British competitors in the forthcoming Empire games.

A Wholesale Service in South London. — Bradley & Bliss, Ltd., offer a personal service "for chemists by chemists" in South London, Surrey and Kent, from their depot at Waddon Marsh Way, Croydon. A 24-hour telephone service is provided (Municipal 2500).

Closed for Holidays. — WARREN, STANLEY & CO., LTD., wholesale chemists, 129 High Street, Edgware, Middlesex, announce that they will be closed from July 30 to August 11 inclusive. — The Newhaven, Sussex, factory of VACCO, LTD., will be closed for annual holidays, August 4-20, though a staff is being maintained to handle dispatches. The company's London sales office at Grosvenor Gardens House, S.W.1, is operating as usual. — The laboratories and offices of DR. M. A. PHILLIPS AND ASSOCIATES and SOUTHERN CHEMICAL PLANT CO., LTD., at 9 Western Road, Romford, Essex, will be

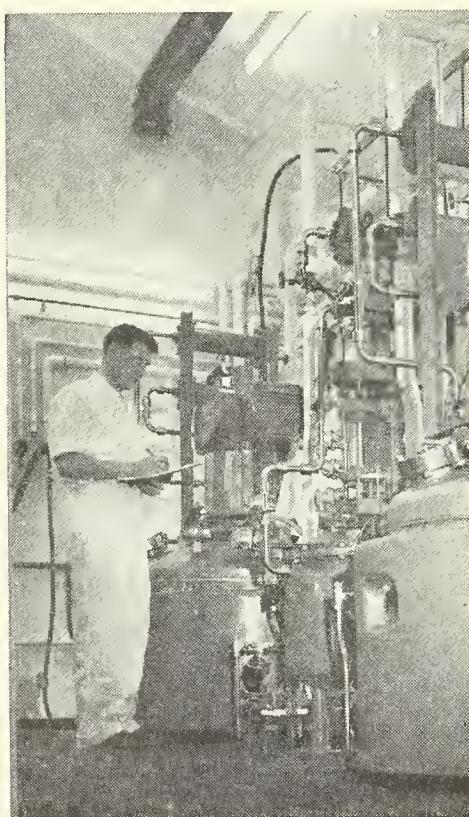


ANTACID POWDER: Single-dose sachet, tin and display outer of Gelusil Lae antacid powder with low-fat-milk solids (William R. Warner & Co., Ltd., Eastleigh, Hants).

closed for the summer vacation from July 30 until August 13.

"Broken Packs." — William Freeman & Co., Ltd., Subaseal Works, Peel Street, Barnsley, Yorks, announce that their standard packs of the following types of hot-water bottles, made up as twenty-five red and twenty-five blue, may be purchased as broken packs at the following prices: — In quantities less than fifty, Suba-star, 42s. doz.; Subaray, 44s. doz.; Bara, 42s. doz. That price structure has been arranged to enable quantities smaller than the standard pack to be purchased as required, either from wholesalers or direct from the manufacturer.

Cologne Visit as Prize. — Three sales assistants left by air for Cologne, West Germany, on July 15, as winners of a 4711 visit-to-Cologne competition organised by Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1. They were Miss B. Fountain (Timothy Whites & Taylors, Ltd., Kings Norton, Birmingham), Mrs. J. Kiddle (Boots, Ltd., Piccadilly) and Miss D. Pengilley (J. K. Westerman, M.P.S., Greenford, Middlesex).



new two-story building houses large-scale manufacturing plant for all stages of production; laboratories for research and development investigation; and administrative offices. New manufacturing equipment will more than double the company's previous output of sheep vaccines.

The unit which was opened on July 10 by Mr. A. G. Beynon, D.V.S.M., M.R.C.V.S. (president, British Veterinary Association), was completed in just over a year. Its ground floor, given over entirely to large-scale production plant, is divided into three sections—general services, culturing and toxoiding, and blending and filling—between which there is no direct access. The upper floor is concerned with the preparation of primary seed cultures, biological control laboratories, research and development investigation and administration.

In 1959, to enable sheep vaccines to be produced on a large scale, Glaxo initiated investigation into deep fermentation methods of manufacture, based on its experience in the production of antibiotics. Following successful pilot-scale production by deep fermentation, the first full-scale production unit was installed at the Glaxo subsidiary company in New Zealand. The new unit at Greenford is thus the second of its kind within the organisation and has been planned and equipped with the benefit of earlier experience.



RECEIVING HER PRIZE: Miss Mary Liney receives a cheque for £20 with holiday-in-Paris-for-two voucher, prizes in the "name-the-perfume" competition of André Philippe, Ltd., 71 Gowan Avenue, London, S.W.6 (see C. & D., June 23, p. 682) from Miss Molly E. Kelly (features editress of the *Scottish Daily Express*).

NEW PRODUCTS AND PACKS

Larger Packs.—Geistlich Sons, Ltd., Melrose Avenue, Chester, have made available a 500-tablet pack of Gevodin tablets and fifty-ampoule packs of GT50 "A" and "B" solutions (5 mils).

An Antihypertensive.—Merck Sharp & Dohme, Ltd., Hoddesdon, Herts, point out that their speciality Aldomet is an antihypertensive and not as recently described in these columns.

A New Antacid.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have introduced a new speciality, Dijex tablets and liquid, each incorporating a new antacid that offers "optimum therapeutic efficiency" and "maximum patient acceptability." In either form the product is understood to exert a prompt effect, bringing the gastric content to pH 3.5 to 4.5 within minutes, an effect that is sustained for up to two hours. Both preparations are understood to have a smooth non-chalky taste so that, even when taken over prolonged periods, they do not become nauseating. The products are issued in box of thirty individually wrapped tablets and bottle of 8 fl. oz. respectively.

A New Diuretic.—Pfizer, Ltd., Sandwich, Kent, have made available a new speciality Nephril as a diuretic for use in hypertension and oedema. The pack is a bottle of 100 pale-green tablets each containing 1 mgm. of polythiazide with an enteric-coated core of 600 mgm. of potassium chloride. Nephril is understood to achieve high antihypertensive activity on a low once-a-day dosage, and to bring rapid response in terms of lowered blood pressure and improvement in symptoms. In mild hypertension it is claimed effective used alone and in more severe conditions to play a decisive rôle by enhancing the activity of other antihypertensive agents, also bringing about a prompt reduction in oedema.

Tetracycline Suspension.—E. R. Squibb & Sons, Ltd., Speke, Liverpool, 24, announce the introduction on July 23 of a new speciality Mysteclin-F syrup, a fruit-flavoured aqueous suspension containing 125 mgm. of phosphate-potentiated tetracycline (hydrochloride equivalent) and 25 mgm. of Fungizone (amphotericin-B) in each 5 mils. Mysteclin-F syrup is supplied in bottle of 60 mils with a teaspoon measuring 5 mils when full. Stocks of Mysteclin-F for syrup (powder for reconstitution with 35 mils of water) are

now exhausted, and the new liquid formulation is being supplied against all orders. The preparations contain identical amounts of therapeutic constituents and have the same dosage. Mysteclin-F for paediatric drops (requiring reconstitution) continues to be available.

Newly Designed Containers.—The pharmaceuticals division of Imperial Chemical Industries, Ltd., Fulshaw Hall, Wilmslow, Cheshire, announce that future deliveries of Savlon hospital concentrate and Hibitane concentrate 5 per cent., issued in 1-gall. tins, are in a newly designed container that over-



comes internal corrosion during storage and use. The tinplate is laminated to I.C.I. Novon PVC foil and the container has a polythene neck and polypropylene screw cap. The contents are not in contact with metal at any point. The lined tins are confirmed by tests to have an indefinite storage life and to maintain the contents in good condition until empty, and even then "the tins will no doubt be found to have a good reuse value for diluted stock solutions of Savlon or Hibitane."

Spray Lacquer in Bulk.—André Philippe, Ltd., 71 Gowan Avenue, London, S.W.6, are marketing in 1-gall. non-returnable can an all-purpose spray lacquer.

Continental.—A new Continental propelling eye-lining pencil is available from Dorothy Gray, Ltd., 565 Kingston Road, London, S.W.20. The liners are available in jet, hazel, lagoon, emerald and dove shades in sleek black-and-gold container.

Soft "Low-key Colours."—*Avant garde* colours newly launched by Revlon International Corporation, 86

Brook Street, W.1, are "a collection of entirely new excitingly soft low-key colours with a liveliness and quality never seen before. They're potently pale without that dull-drab or muddy look . . . madly exciting, superbly subtle . . . the pace setters for the 1970's!" They are available in lipstick and matching nail enamel. The colours are: pink cognito, madly mauve, blasé apricot, naked pink, low-down pink, beach peach, nouveau peach, bare beige, swinging pink and super natural.

Foaming Dandruff Remover.—A new foaming dandruff treatment, Danned, the manufacturers of which are Shadler, Ltd., 136 London Road, Brighton, is described as "the perfect hair conditioner and dressing" ("not a shampoo") for men and women. Odourless, it contains no oil or spirit.

Talcum Powder Packs.—Two new packs for talcum powder have been made available by Marcel Rochas (England), Ltd., 56 Grosvenor Street, Lon-

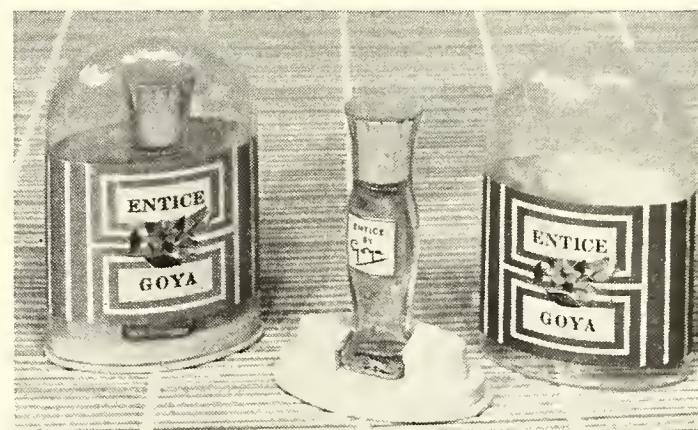


don, W.1. They are *Femme* and *Moustache*. *Femme* is packed in a lightweight white plastic container with black motif and *Moustache* in dark blue container with gold lettering and design. Both have gold tops.

Make-up with "Muted Undertones."—In Paris earlier this year the perfumery house of Guerlain was asked to create new make-up shades for stars attending the gala ball of the French variety artistes' union. The result was "Champagne Make-up" described as "a sparkling very-much-alive look, with muted undertones." The range comprises Eglantine lipstick ("sweet-briar translated into a high-fashion colour"); Ombre Dore powder (a "sandy gold");

New Display Carton.—Gascoigne-Crowther, Ltd., Caversham Laboratories, Reading, Berks, manufacturers of Napisan, announce that in future their product will be packed in a three-colour display carton of six in order to "assist the retail chemist to display Napisan."

INCORPORATING A PERFUME THAT WAS ONCE REGARDED AS IMMORAL: Patchouli, an important "note" in the new Entice perfume of Goya, Ltd., 161 New Bond Street, London, W.1, has tended to be neglected because, say the manufacturers, it used to be regarded as immoral. In Entice it is "modified with more modern notes."



and Emeraude eye shadow ("a gentle green stolen from the grape vine"). All are available from Guerlain, Ltd., 22 Aintree Road, Perivale, Middlesex.

Continental Shampoo-tint for Britain.—Polycolor cream shampoo tint, described as "the best selling shampoo-tint on the Continent, is now being dis-



tributed in Britain by Richard Hudnut, Ltd., Eastleigh, Hants. Polycolor is claimed to give "more natural colour results" than any other semi-permanent hair colouring, an effect that lasts through six to eight washings. There are nine shades (light, medium and dark blondes, light, medium and dark brown, auburn, mahogany and black).

Perfume Aerosols.—J. C. & J. Field, Ltd., Slough, Bucks, are making available in aerosol sprays (perfume and Cologne) their fragrances French moss and French flowers. Each is packed in a diamond-shaped window carton. The



launching is being supported with Press advertising. Another new product of Messrs. Field is a non-lacquer hairspray which is supplied in French pink fragrance.

A New Range of Teats.—S. Maw, Son & Sons, Ltd., Barnet, Herts, announce the availability of an additional range of de luxe teats made by a new process using heat-sensitised latex. The new teats have a flanged skirt that faci-



litates fitting and removal from a feeding bottle, and are of an improved design to give longer life and make cleaning easier. The teats are about 30



NEW CREATIONS AND DISPLAYS: Silver-plated French metal

gravures of "Old Masters" form the centre of the compacts illustrated. Various designs are available. The inner lid is self-opening. Size of compact is 3 x 3 in. Makers are Laughton & Sons, Ltd., Birmingham, 14. Blue, yellow, red and white unit for Bristow's lanolin shampoo. The unit has been specially designed to hold sachets, tubes and bottles of the shampoo. Makers are County Laboratories, Ltd., Great West Road, Brentford, Middlesex. Counter-display "dispenser" for new chocolate-flavoured Metercal wafers of Mead Johnson, Ltd., Morris House, Berkeley Square, London, W.1. Packed nine in a packet, the wafers provide a complete 225-calorie meal for 2s. 6d. Display bin for new "double flat pack" of interleaved toilet tissue of Jeyes (Sales), Ltd., River Road, Barking, Essex. The new pack has been produced to tie in with the current trend of sales of toilet tissue. It is available in three colours (natural, blue and pink) and issued in case of eighteen.

per cent heavier in weight than Maw's standard teats, providing a "tougher" product with the feature of resilience characteristic of all Maw's teats. They are sent out in an individual "bubble" pack similar to that used for other teats of the company and are available in small, medium, large, extra-large and 3-hole sizes. A display box contains thirty-six of one size or an assortment of sizes.

Fourth in Shaver Range.—Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, have added to their Philips Philishave range



a new Philishave Superjet electric shaver (on retail sale from August 15). The new model has the characteristic Philishave shape but is more streamlined, and has two small red push-buttons for voltage selection. The instrument has the same rotary cutting action and flip-up head for easy cleaning as the floating-head model, and the lead is detachable. The plug is unbreakable, and the black-and-white presentation case is flat for easy packing. A 10s. credit is offered to wholesalers and retailers on every standard-volt (type 7918) model in stock, provided an equivalent number of Superjets is ordered on a one-for-one basis. The offer is available only until August 10.



Safer Sleep for Babies.—The Relyon Safesleeper of Price Bros. & Co., Ltd., Wellington, Somerset, has been designed so that baby can breathe normally when face down, thus eliminating the risk of suffocation. Introduced in July 1961 at the Mother-and-baby exhibition, it is claimed the only pillow approved by the National Baby Welfare Council. The Relyon Safesleeper pillow is a special formulation of polyether foam containing virtually innumerable interconnecting air cells that are never sealed by the pressure of a baby or even several babies. A channel cut the full width of the pillow, and additional vents punched through its thickness, provide additional safety factors. The cotton cover is amply porous both alone and in conjunction with the pillow. Pillow and cover may be washed

together by normal methods and may be sterilised repeatedly. The pillow is dent-proof and chemically inert to all bacteria. It is made in three sizes to fit most cots or prams (8 x 21 x 2 in.; 8 x 14 x 2 in.; 8 x 16 x 2 in.).

Portable Resuscitator.—Pfizer, Ltd., Sandwich, Kent, are making available the Porton resuscitator, a hand-operated apparatus for applying artificial respiration. Claimed a great advance on other methods of positive pressure resuscitation, the apparatus is small, light, easily portable and inexpensive. It is understood to supply a much larger volume of air than mouth-to-mouth methods, and it dispenses with the necessity of direct contact with the patient. The patient's airway is kept automatically clear, and a single operator is able to use the resuscitator for

long periods without fatigue. It is simple enough to be capable of being operated by comparatively untrained personnel.

Plastic Curlers.—Newey Bros., Ltd., Brearley Street, Summer Lane, Birmingham, 19, have introduced two new types of plastic curler in transparent packs. The Relaxa curler has a soft cushion centre with outer plastic frame ("very comfortable to sleep in") and is made in a medium size in pink and blue. Each packet contains six curlers. A larger size is in packet of four. The Grippa curler is a flexible roller made in plastic and with its own grip that snaps into place and holds the hair. The Grippa is in a medium size in pink and blue, each packet containing eight. A larger size is also available in packet of six.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

"Guiding Light" Jumped At

SIR,—One reads in the papers every day of one or other of the workers in professional or semi-professional unions turning down contemptuously offers of 2½ per cent. wage increases. Surely our National Health negotiations could obtain such an increase for us! Speaking, of course, purely personally I would jump at a 2½ per cent. increase, even if only on oncst.

ARTHUR E. WALLIS,
Maldon, Essex.

Sunday Conferences

SIR,—In perusing the report of the Conference of N.P.U. Branch Representatives in the July Supplement of the National Pharmaceutical Union I was struck with a remark in the last paragraph, in which some speakers felt that it would be wrong, "on Christian principles" to make a habit of holding conferences on Sundays. This is the most heartening statement I have ever read in any of our publications. In these days of materialism and rejection of the Fourth Commandment, it is indeed something to feel pleased about when pharmacists can stand up in public and appeal to "Christian principles." May they long continue to do so.

DAVID O. EVANS,
Newick, Sussex

No Retrospective Effect

SIR,—After much correspondence the Minister of Health has now decided to pay in full to March 1962 any contractors who held separate contracts till that date. When ECN391 was issued I challenged the Minister regarding the retrospective date in the amendment, i.e. back-dating the new regulation to November 1, 1961. The National Pharmaceutical Union fully supported me in this matter and, on my behalf, sought counsel's advice. A solicitor's letter was accordingly sent to the Minister. After several unanswered letters to the Minister I received the following reply:

SIR,—I am sorry you have not had an earlier reply to your letters of June 7 and

15 about your claim that payment for the prescriptions dispensed from your pharmacy in January and February should be made on the basis of two separate contracts, despite the revised Drug Tariff provisions subsequently notified in ECN391. The Minister agrees on consideration that the revised Drug Tariff provisions ought not to be applied retrospectively and he is writing to this effect to Messrs. Lamartine, Yates & Lacey and to the Bolton Executive Council, who will no doubt arrange for payment to you of the sum at issue.

P. M. WILLIAMSON,
Ministry of Health

This means that the Minister must now pay up in full to *all* pharmacists with separate contracts. I would like to pay tribute to the N.P.U. and Contractor's Committee for their full support. This is one occasion on which the Minister's dictatorial methods did not work.

GEOFFREY LOWTHER,
Bolton, Lancs.

Three Essentials

SIR,—I am amazed at statements in the Press made recently by two spokesmen for multiple chemists in connection with National Health dispensing and the pharmacist. They state that, since the imposing of a 2s. fee per item, the number of prescriptions has gone down sharply. That outcome was what the Minister of Health was after, a reduction in the expenditure on drugs, therefore the argument for the removal of the charge is of no use in negotiations with the Minister. Removal of the charge would result in more shopping at the doctor's and, with more prescriptions, a bigger drop in the oncst. Where would that benefit us? It seems to me that some people in responsible positions in pharmacy are greatly lacking in ordinary common sense, and should not be allowed to make statements which are unhelpful to our chance of better payment. Three points only need our attention in the fight for better conditions in pharmacy: First, that all medical, surgical and allied products should be sold by chemists only;

secondly, the retention of price maintenance; and third, a proper payment for National Health Service dispensing. Given these, we "small" pharmacists would be able to give better service and improve our premises. Under present circumstances it is becoming impossible even to make a decent living.

W. F. E. GILL,
Bristol

Press Comment

SIR,—I see that you, in your Leader, and Krayser, in his column, have dealt in detail with the tendency to prescribe needlessly large quantities. I had a letter published in the *New Daily* on the same topic, and their contributor Brutus made this comment on June 16 under the heading "Consumption Limited." "I feel that a suggestion thrown out by the *Sunday Telegraph* lately could well be pursued. It arose from a warning by the Parliamentary Secretary to the Ministry of Health that medicines should not be kept after the period for which they were prescribed. The *Telegraph* suggests that chemists should add to their labels a date and a period for safe consumption. They might also add the name and ingredients more often than they do. But then to do this the N.H.S. would have to pay them a reasonable fee for the work involved." A fortnight later my reply appeared:—

SIR,—Your contributor Brutus is under some misapprehension as to what chemists may, or may not, write upon their labels. It is the long-established practice, well understood by both parties, for the prescriber to indicate what he wishes to appear, and for the chemist, who dispenses, to write on the label only what he knows the prescriber intends should appear there. That is logical, for the prescriber has, after all, dealt with the patient at first hand and must know better than anyone else what can most advantageously appear on the label. It is, in any case, already the custom, in handling medicines that have a limited period of activity, to put on the label a date beyond which they are no longer fully efficacious. That point brings me

to another question: Why should there be medicines left over? Either the patient has failed to take the full course of treatment, or too much was ordered in the first place. It is this "too much," more than anything else, that is responsible for the size of the bill for drugs incurred in N.H.S. practice. As for a "reasonable fee," this really does touch on a sore point; for chemists today are

working to a sliding scale, so that for every prescription they dispense above a certain number, they receive less, progressively, for all the others. That this should be so, and that they should be compelled, for the time being, to accept such conditions, is due in part to weaknesses in their organisation, weaknesses which there is every hope will soon be remedied.

The *New Daily* has not, as yet, a large circulation, but it is a national newspaper reaching a selective readership; on that ground I am fortunate to be published in full. I know, from many efforts, how difficult it is to gain entry to the national Press.

J. T. MARRIOTT, F.P.S.,
Hemel Hempstead,
Herts

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE
SPECIAL PROBLEMS OF THE PHARMACIST
IN RETAIL PHARMACY

E. C. TENNER

NEVER do I remember having so much difficulty in recovering from my annual holiday as I am having now. About ten days ago I took over again from my locum. In the three weeks I had been away there had been no unforeseen difficulties and everything was in apple-pie order and the trusty supporting staff all well and happy. Yet it is lucky for me that there were no grim difficulties to be overcome, because my brain just would not speed itself up to join in the normal pharmacy rat-race. I realised I had been more unwound by my holiday than ever before.

Perhaps it was because I had had three weeks instead of my usual two. Perhaps it was because I had not looked at a newspaper for twenty-one days, but I am inclined to think it was because I had lived for three weeks rather close to the people and the soil of the west of Ireland, and had experienced the pleasure of coming unhitched from clocks and cares. Every day since I've been striving to pick up more threads. Gradually I am catching up with essential routines.

Writing this article is one item that has needed a good deal of self-discipline to carry out. Another task that I have relegated to the very last is the reconciling of my books with the monthly bank statement which came in while I was away. But if I leave it much longer there will be another in on top of it. My inclination is to fight hard against looking at newspapers, even the pharmaceutical Press, but circumstances are gradually forcing me back into their mould again . . . the weekly wage sheet with its pay-as-you-earn and graduated pensions, is a hard task master that has to be promptly coped with.

Pipe Dream

One thought has begun to live continually in my mind lately: If only I could afford a permanent locum and to retire into the timeless simplicity of a permanent Irish holiday! That pipe dream will, I am sure, fade gradually as my blood pressure builds up again in the too-long interim before my next holiday. Meanwhile I feel I can look round at my own shop much more objectively than I have been doing for months past. For instance, just look at that undignified shelf of tooth-pastes! What a spate of free offers it now includes along with the once sober and highly respectable tooth-pastes! With the pastes we have offers of money, shampoos, long-playing records, nail brushes, tooth-brushes, hair combs and even spare tubes of tooth-paste itself! This is the craziest sort of advertising and ought to be shunned by us all as much as we possibly can. We certainly appreciate that staunch friend the nationally advertised tooth-paste that sells without gimmicks at a stable price and only through us chemists. I find comfort in observing at least one product in my pharmacy that has remained these fifty years untainted by modern advertising cleverness, and remained a line my father would still recognise.

In spite of my avoidance of newspapers, my attention was drawn to an ominous advertisement in a "jobs vacant"

column of our local weekly: ". . . largest cosmetic company in the world, requires representatives in all districts . . . to meet ever-increasing public demand. If over twenty-one earn £££'s selling cosmetics and toiletries, even with domestic and other commitments in spare time and your neighbourhood. Also representatives required in factories, offices, hospitals, etc., selling to friends at work. Selected women trained at home to start earning immediately. . . ." Now I happen to know the wife of a wealthy farmer who has been called on by one of these women, and who now obtains many of her requirements from "the largest cosmetic company in the world." Frankly I do not know the answer to this advertisement, but it certainly does a lot to jolt me out of shangri-la back into the business jungle of this fantastic system wherein we can only afford to make the nation's medicine if we are successful shop keepers.

To Screen or to Hide ?

Uncomfortable, unsettled and unpredictable accurately describes most of the weather we have had so far into 1962. For months we waited for seasonable spring weather, but the east winds went on blowing. We are now long past midsummer and still waiting for a summer spell of *set fair* and *warmer*. Most of us are beginning to doubt that it may burst upon us any day now. Strangely enough I hear from the seaside that sun-specs sell even when there is no sun. Why do people wear them? Opticians tell me they are quite unnecessary for normal people on normal occasions and if worn for long periods without need they are harmful to eyes. I appreciate the value of optical screens against undue dazzle and glare, but I am convinced that most of the sun-specs sold are bought merely as fashionable holiday accessories. Incidentally the most difficult customers to satisfy are males in the younger age groups, and one sometimes suspects that the dark filter is required rather to screen the roving eyes from observation than from the incidence of too bright light. On occasions I have advised customers that they do not need a light filter, but my advice has invariably been ignored and myself regarded as a crank.

One consolation for my conscience, which is uneasy about the large numbers of unnecessary sun-specs that I sell, is that most of them are probably mislaid or broken before they have time to do much harm to their owners. My seaside pharmacist friend tells me that the south-coast pharmacies are still in mid-July looking for the annual attacks by wasps and jelly-fish and sun upon the unwary holiday makers. But no doubt their waiting will be rewarded in August: or will it?

What an unsatisfactory year it has so far been for pharmacy! Great changes are upon us, some of us are aware of them. Is it surprising that some of our leaders seem to believe these changes can be safely ignored? Unwise leaders have always resisted change . . . and been swept away. Great leaders have harnessed change successfully to their causes.



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at
28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMUS ESTRAND, LONDON"
TELEPHONE CENTRAL 6565

Drugs in the Public Eye

SUCH a television discussion as was staged on the B.B.C.'s "Panorama" television programme on July 16 (see p. 56) is bound to be viewed in a specially critical light by those concerned with the introduction, distribution or administration of drugs. The subject of medicine and how it should be marketed has its public faces, and that they should take their place among others on the screen is right and proper. It is right, too, that experts should be brought in to give guidance to the public on the issues involved. So far so good, but the discussion turned on two topics only, each capable of occupying a full-length programme, so there was neither the advantage of presenting an all-round picture nor the possibly greater benefit of concentrating on a single theme and getting it thoroughly understood.

The first topic was the amount and nature of literature received through the post by doctors from manufacturers—a domestic problem unless it was intended to prove that patients were being deprived of service because practitioners occupied too much time in reading it. Certainly a substantial pile was shown as the harvest of a single doctor in a single week. The seven doctors brought into the programme showed complete unanimity in saying that the amount was excessive, and the suggestions put forward that manufacturers' leaflets and booklets should have been more concise and less repetitive would have been fair enough if there had been any indication that what was received was looked at. The impression given was rather the reverse, since one doctor stated categorically that he never looked at any of it.

The second topic dealt with—that of the missshapen babies born to mothers who had taken thalidomide as a sedative during pregnancy—was totally unrelated to the first, for it could hardly be contended that the "thalidomide tragedy" could have been avoided if more literature had been read by more doctors. As it was, skilful emulsification by the compere served to conceal the fact that the subject was a separate and altogether more important one. It was, on the whole, presented fairly and temperately as something whose disastrous effects could not have been foreseen—a fact further brought out (July 12) in the House of Lords, where it was stated, in reply to a wise-after-the-event question about a similar effect of the drug on litters born to rabbits, that it had no such effect on rats. The pharmacologist (Professor Andrew Wilson) and the spokesman for the industry (Mr. J. C. Hanbury), though they

were not in total agreement, both made more thoughtful contributions than had been made by the doctors in the first part of the discussion, and the moral drawn on the summing-up that there should be some form of control over the introduction on to the market of new proprietary remedies will probably command as high a measure of agreement within the circle of medicine and pharmacy as among the general public. The question that remains to solve is what form that control should take.

Cabinet Rank for the Minister

LITTLE enthusiasm appears to have been aroused within pharmacy and the pharmaceutical industry for the Prime Minister's decision to promote Mr. Enoch Powell (Minister of Health) to Cabinet rank. The hope had rather been felt that he would be translated to some other sphere, for a new confidence might then have been breathed into the relationships between the Ministry of Health and various sections of pharmacy. Confidence on pharmacy's side has sunk to so low a level in recent months that we believe it would take a Ministerial change to give rise to even the slightest improvement. Chemist contractors are in militant mood; manufacturers are perturbed at the undermining of the statutory protection they were until recently given by the Patents legislation; and the hospital pharmacists are smarting under the studied neglect by the Industrial Court—despite a 5 per cent. increase in salaries—to pay attention to the arguments put forward by the Guild of Public Pharmacists for remuneration at an altogether higher level. Mr. Powell was described in one of the national newspapers in recording the Ministerial changes as the "conscience" of the present Conservative Government, and though that hardly accords with the Industry's view, inevitably coloured by his perversity, as they would consider it, of Statute Law, it must be a melancholy satisfaction, at least to the staff of the Ministry itself, that their Chief returns to a rank none of his predecessors has held since the late Mr. Aneurin Bevan, founder of N.H.S., held office. At that time, of course, the Ministry was also responsible for housing, local government and other auxiliary services. There was, of course, Captain H. F. Crookshank, who was Minister of Health from November 1951 to May 1952, but he may be said to have held Cabinet rank by virtue of being Leader of the House. Mr. Powell's elevation of rank will at all events ensure that the point of view of the Departments of Health will be known at first hand within the Cabinet. If that were to result in a lessening of Treasury influence in health matters, it might be to the advantage of the Health Service in both its professional and public aspects.

Severed Connections

THROUGH the elegant Council chamber of the Pharmaceutical Society on July 4 there must have rippled a sigh from the Muse of History. On that day the Council's Finance and General Purposes Committee reported that the time had arrived when no further names could be added to the presidential chain. The Committee made recommendations as to what should be done.

Everyone knows that it is the last straw that breaks the camel's back, and it may have been a chivalrous consideration for the new president Miss Mary Burr

(only the second lady president in 120 years) and the desire to save her from too heavy a burden of office that prompted the bringing forward of the report at this juncture. The reality is that the chain is now too heavy, if not for even a male president to wear, at least for keeping unbroken the connections between its own handsome but too soft 22-carat gold links.

From his canvas above the president's head the first of the line—William Allen, F.R.S., whose name is among the fifty-eight on the chain—must have listened rather ruefully to the recommendation that, with thirty-nine of his successors, he should be dimembered from the chain and relegated to a special case for exhibition "on special occasions."

Hardly more reconciled to the Committee's proposition were some of the senior present members of Council, among them four ex-presidents (though whether any

of them held office so long ago as to be among the relegated forty would appear doubtful). Mr. T. Heseltine would seem to have spoken for all the veterans when he said "It has taken a hundred years to get that chain together. To break it is a big step to take." It is indeed.

There naturally is the future to think of. Time does not stand still, and the eighteen names left on the chain, now to be brought to a heady prominence, will need to be joined by others, so the recommendation involves adding new links "so as to achieve a balance."

The decision taken by the Council demonstrates a certain courage but a greater realism. The forty links are to be removed. But the advice of a leading goldsmith on how to deal with the remainder is, when given, to be acted upon not by the full Council but by the president and secretary.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN RELATIONSHIP WITH CONTRACTORS COMMITTEE

Meeting sought to discuss problems

THE Council of the Pharmaceutical Society is seeking to arrange a meeting between a number of its officers and representatives of the Executive of the N.P.U. to discuss a letter from the Union concerning the relationship between the Society and the Central N.H.S. (Chemist Contractors) Committee. That decision was reached at a meeting of the Council of the Society held in London on July 3-4 after considering a report upon the resolutions on unity passed at the special general meeting held on April 29 and at the annual general meeting on May 15. It was agreed that the report should be considered again at the next meeting of Council, after which a statement on the resolutions would be issued.

The following chairmen of Standing Committees were elected for the year 1962-63:—*Education*: Mr. H. S. Grainger; *Benevolent Fund and War Aid*: Mr. T. Heseltine (re-elected); *Organisation*: Mr. T. Reid (re-elected); *Finance and General Purposes*: The treasurer (Mr. W. S. Howells) (re-elected); *Publications*: Mr. E. A. Brocklehurst (re-elected); *Public Services*: Mr. J. B. Grosset (re-elected); *Law*: Mr. H. Steinman; *Ethical*: Mr. W. J. Tristram.

The Council considered a report on the provisions of the Treaty of Rome affecting pharmaceutical qualification and practice and on the conditions in those respects in the countries of the European Economic Community. It was agreed to publish a statement setting out the situation as seen by the Council and to send a letter to the Minister of Health giving the Society's views on the attitude which the Government should adopt in the event of Britain entering the Common Market.

Education Committee

MR. H. S. GRAINGER (chairman) presented the minutes of an Education Committee meeting held on July 3. The Committee recorded its appreciation of the services of Mr. C. W. Maplethorpe (vice-president) during his chairmanship of the Committee for many years.

It was recommended that Mr. W. M. Darling should be nominated as the Society's representative on the governing body of the Sunderland Technical College to replace Mr. E. T. Kent, who had resigned.

A report was given of a meeting between representatives of the Society, the University of Edinburgh and the Heriot-Watt College at which a proposed degree in pharmacy was discussed.

A report was given on discussions in which the Scottish Department had taken part regarding the institution of an examination for dispensing assistants in Scotland.

It was reported that the Benevolent Fund and War Aid Committee had decided to invite Messrs. N. Morris, F. Orrell, D. E. Sparshott and C. E. Turner to attend meetings held at Birdsgrove House during the year 1962-63.

It was recommended that the January, June and August 1963 meetings of the Council should be held on January 9, June 12 and July 31 respectively.

MR. T. REID (chairman, Organisation Committee) reported that consideration had been given to a number of resolutions approved at the Branch Representatives' meeting.

The Committee noted that the resolution urging action by the Society to ensure that the practice of pharmacy was confined to pharmacists, and to form a co-ordinating committee with other recognised pharmaceutical organisations, was in line with the Council's policy.

After considering the resolution to increase Branch grants by 25 per cent., subject to a minimum of £15 and a maximum of £25, the Committee recommended increasing the Branch grant as follows from April 1: First 350 members, 8s. per member; remainder, 5s. 6d. per member.

It was reported that the question of stimulating Branches and members to use the occasion of the centenary of the British Pharmaceutical Conference to obtain the maximum favourable publicity for pharmacy in their areas was already under consideration by the London Local Committee for the 1963 Conference.

It was recommended, and the Council approved, that the resolutions calling for submission of any proposals deriving from the report on the General Practice of Pharmacy to a special Branch Representatives' meeting; full implementation of the report expedited by the adoption of an adequate professional fee; and for steps to obtain control of the distribution of retail pharmacies, should be noted for consideration at the appropriate times.

It was reported that a further remodelling of the presidential chain was needed as all the links had now been inscribed. Owing to the weight of the chain, it appeared that links would have to be removed if new ones were to be added. A recommendation that the officers should be authorised to approve a new design, and a method of preserving in an appropriate manner the links removed, was adopted.

MR. H. STEINMAN presented the report of the Committee on a Scale of Professional Fees. The report contained a recommended scale of fees for private prescriptions. It was received by the Council, which decided to ask the Committee to consider and report upon the policy aspects involved in the adoption of the recommended scale.

“PHARMACO-PINAX”

First printed Scottish price list of drugs?

LESLIE G. MATTHEWS

WHEN communication was less easy than it is today, and customers were widely dispersed, printed lists of commodities were treasured as useful works of reference. In 1625, when “Pharmaco-Pinax,” the list here described and illustrated, was issued, communication by road in the north of Scotland was difficult. Roads were bad. Many were unmade, and not until military needs called for better transport facilities was the countryside fully opened up. Doctors in Aberdeenshire, and wives of the gentry (many doubtless with family recipes for treating their households and dependants) would have been glad to receive a compendious price list of drugs and medicines—about 1,500 items were included—and having studied it, to send to the leading apothecary in Aberdeen for needed supplies to be dispatched by pack horse. The list was probably the first printed list to be issued by a retailer of drugs, and it has the distinction that copies of it have survived for more than three centuries.

Title-page

The title page reads: “PHARMACO-PINAX,/ or A TABLE and TAXE/Of the Pryces of all vsuall Medicaments, Simple/ and Composed, contayned in D. GORDON’S Apothecarie/and Chymicall Shop, with MR. ROBERT FARQVHAR’S/high Lodging, in New ABERDENE. Together with certayne approved Remedies against Diseases,/ which now most reigne amongst the Commons. All/for the vse of the People; proportionate both/to Rich and Poore, Learned and Vnlearned; and profitable to all.” After a few lines beginning with “The Lord hath created Medicines out of the Earth,” etc., the printer adds his device, a sitting bear holding sprays of leaves, and the page ends with the colophon: ABERDENE, Imprinted by Edward Raban, ANNO 1625.

In 1926 the only surviving copy of the list known to Pollard and Redgrave was in the British Museum.¹ Two other copies were recorded by Johnstone and Robertson in 1929, one at the Royal College of Physicians, Glasgow, and the other in the Bibliotheca Lindesiana.² The British Museum copy is a book of 44 pages, approximately 7 x 5½ in. the top margin having been cut at some time, probably at a rebinding. The text is intact except on a few pages where gaps have been filled in by hand, presumably from another copy. It bears the name “D. Laing” on the flyleaf and under it, though apparently not in the same handwriting, are the words: “A copy of this wee tract at the Gordonstoun Sale, 1816, sold for £5 7s. 6d.” The reverse of the title page has the arms of the City of Aberdeen from a well-cut wood block with the motto “BON ACCORD.”

The list commences with a 5-page preface “To the Reader” in English (p. 3 to part of p. 8), followed by a further preface in Latin “Lectori Philiatru S.” (remainder of p. 8 and p. 9). The price list proper runs from p. 10 to p. 40, the remaining four pages being taken up with the advertising of special “Drops, Diverse Medicaments of the Vulgare sort” and “Approved Remeadies, for particular Diseases.” The first reference to the existence of this price list that came to my notice was in a small volume, hand printed and illustrated, entitled “Notes on Pharmacy in the Olden Time,” a book of few pages which John Eagle, of Roxeth, Harrow-on-the-Hill, had published in 1885, and in which he had set out some of the odd items gathered from early writings on pharmacy. Two copies of Eagle’s work are in the library of the Pharmaceutical Society. Eagle wrote: “The oldest British price list I know (is) the “Pharmaco-Pinax,” and he gives the extended title which appears above.”

The Author

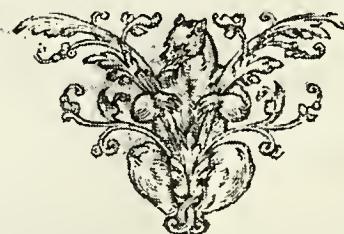
Who was D. Gordon, and how came he to have his apothecary’s shop “within Mr. Robert Farqvhars high Lodging in New Aberdene”? A good deal of information can be gained here and there to answer these questions. Dr. William Gordon (the D. Gordon of the title page) for whom the price list was printed, had his own apothecary’s shop for some years while practising medicine in Aberdeen. Gor-

PHARMACO-PINAX,

Printed by Edward Raban
A TABLE AND TAXE
Of the Pryces of all vsuall Medicaments, Simple
and Composed, contayned in D. GORDON’S Apothecarie
and Chymicall Shop, within MR. ROBERT FARQVHAR’S
high Lodging, in New ABERDENE.
Together with certayne approved Remedies against Diseases,
which now most reigne amongst the Commons. All
for the vse of the People; proportionate both
to Rich and Poore, Learned and Vnlear-
ned; and profitable to all.

The L O R D bath created Medicines out of the Earth, and hee that is
wysse will not abhore them. Hee hath given Men Skill, that hee
myght bee honoured in his marvulous Workes. By such ffe health
Men, and taketh away their Patue, &c. My Sonne, in thy Sicknesse bee
not negligent to pray to the L O R D: Leave off Siane, order thine Heart
right, and cleanse thine Hands from wickednesse, &c. Then giae place
to the Physician, for the L O R D bath created him; let him not goe
from thee, for thou hast neede of him, &c. Honour him, with the
Honour due to him, &c. His Skill shall lift vp his Head, and in the
sight of great men bee shall bee in admiration. Ecclesiasticus 38.

They that be whole need not a Physician, but they that are sick. Math. 9. 12



ABERDENE,
Imprinted by Edward Raban,

ANNO 1625.

Title page of PHARMACO-PINAX (Dr. William Gordon’s Price List).
(Photo: British Museum Copyright)

don was born in Aberdeen about the year 1595 and was probably educated at King’s College there before going on to read medicine at Padua from which he graduated M.D.⁴ At the time he had his shop he was about thirty years of age, for the list is dated 1625, and, as the preface states, he had recently come back from his travels. Since he refers to prices charged for drugs in “France, Flanders or London,” it is possible that he visited these two countries in addition to London, not long before. He may have passed through Flanders on his return journey from Padua in North Italy to Aberdeen. That he was well placed in his native city is clear from the fact that he became a burgess. In his profession of medicine he was so well reputed that in 1632, when Dr. Patrick Dunn ceased to be “Mediciner,” i.e., Professor of Medicine, at King’s College, Gordon was elected in his place.⁵ His election as well as some other



William Gordon (1593-1640). From the original portrait in King's College, Aberdeen. (Reproduced in J. D. Comrie's *History of Scottish Medicine*, London, 1932.)

(Photo: Wellcome Historical Medical Museum)

appointments made at the same time came in for criticism a few years later but the National Assembly upheld them in 1638.⁶

The "high Lodging" of Mr. Robert Farqhar (or Farquhar), the address given as that of Gordon's shop on the title page of the list, was in Upper Kirkgate, a little below Guestrow. Mr. Farquhar's property included what Spalding called "Farquhar's clois" (close).⁷ (Farquhar was a Master of Arts of Marischal College, Aberdeen, and a prominent citizen who became provost and who was knighted in 1651.) Gordon, while holding the post of Mediciner, resided with his wife, three children, and four apprentices "within the Spittel."

Gordon was a true son of his College, the first and only medical school in Scotland during the early years of the seventeenth century, for whom the crown of the tower of the college was blown down by a gale in 1631, the year before his appointment as Mediciner, he took the responsibility for gathering funds for its re-erection from the gentry and for overseeing the work.⁸ He had a great reputation as a teacher, especially of anatomy, and it was during his period at the college that he applied to the Privy Council for the delivery of bodies for the anatomy classes, and secured an order which remained in force until the nineteenth century.⁹ Gordon became a baillie of Aberdeen in 1636 and he continued in office until his death in 1640. He had resigned from the college in 1639. His death caused a gap in the city, as related by Gordon in *Scots Affairs* . . . "there dyed Dr. William Gordon, Mediciner in Old Aberdeen University, one of the founder members of the College of Old Aberdeen and common procurator thereof. A godly man and singular in common works about the college. Well seen in the service of physick."¹⁰

A Thesis and Verses

In 1621, probably soon after Gordon returned from Padua, he published his *Theoremata Physico-medica*, which may have been taken from his graduating thesis there.¹¹ He

also wrote some of the elegiac verses that were a customary contribution by the learned on the death of local celebrities in Aberdeenshire in the seventeenth century; in 1631 he was himself eulogised in Andrew Strachan's *Panegyricvs Invaginalis*.

Edward Raban, the printer of Gordon's price list, had a varied career before he set up as a printer in Aberdeen. He was in the English army for ten years, having run away from an apprenticeship to join, as he says, with "bankrouts, gentlemen and prentices" to get what they could in the wars of Flanders. They lived hard, upon biscuits and water for much of the time. His service ended, he made his way first to Leiden in Holland where he worked with a printer, then to St. Andrews in Scotland, from which he was induced to move by Bishop Forbes in 1622 and to set up his press in the city of Aberdeen. He became the accredited printer to the city and to the university, his work entailing the printing of bills, notices and almanacs, in addition to books and theses. Raban died in 1658.¹²

Table and Taxe of Medicaments

In both prefaces to his price list Gordon runs over much the same ground. He recites the customs of "well-Reformed Cities in Germanie and Italie" where "everie yeare the Colledge of Medicine visit all Apothecarie Shops, and examine their Drogs, Simple and Composed" and they throw out "whatsoever is fuiste (mouldy), corrupted," etc., and "cause burn" (this Scotticism comes in often) all dry herbs reserved for two years, whether they are fresh or not. They "cause print" the Table and Taxe (a price list) of the medicaments based on the plenty or otherwise of the year and they have regard to the market prices of the Indian and Eastern traders. The reasonableness of this practice, as applied to Scotland, is questioned by Gordon, though he is sure that there is a good deal of overcharging in his own country. He, the author, has brought home to Aberdeen, in order to redress these enormities, fresh materials, and an excellent Artificer, who can make up all the listed items "more faithfullie and delicate and as cheap as from France, Flanders or London." Accordingly he has printed for convenience this price list. He complains that many who do business with other nations bring home only their vanities and vices and that they acquire "new infirmities, unknown to former ages." He then proceeds more directly to his purpose—to use the price list intelligently, the reader must know the table: leaves of herbs are measured by the handful and the abbreviation M (for manipulus) is given. Flowers are measured by the half-handful, dry wares and liquors are sold by weight: for these the pound, corresponding to the Scots' "mutchken" is used, subdivided into 12 ounces, the ounce into 8 dragmae, and the dragma into 3 scruples, each scruple containing 20 grains, "each grain answering to a Peppercorne." In other words, the Troy weight of the apothecary was followed. Gordon said that his practice was that the more you buy, the cheaper; the less, the dearer, as is the usual custom. He asserts that he has brought prices down to the lowest of the year and that he does not want to be continually changing them. The purchaser can have free advice about any of the drugs or medicaments, since there is always a competent person on hand in the shop, though Gordon himself can promise, if God please, to be present "on Whitsunday and Martinmas Courts." In listing his Simples he says that he has used herbals or dictionaries and that he has put the English name first, then the Scottish, which although a barbarous practice, at least makes them known more readily. (Is this what might be expected of an educated Scot returning from London, full of his English speech?) As for the prices of his drugs, if persons find them too dear, they may go elsewhere as they please, after giving him the opportunity to make a reduction. Gordon points out that he lists some cheaper medicines, perhaps not so elegant or refined, but at least they will do good for the poor. In his Latin preface he makes reference to the classics—cleaning out the Augean

stable, etc.—and refers to the alphabetical order of the list. (This is exceptionally well done needing no index.) He dated the preface: "Abred. Ex Pharmacopolio Nostro Kal. Octob. 1625."

"Stiff" Prices

As will be seen, the prices, judging by a century later or the present day, are a little "stiff," nothing is sold under one Scots shilling and some are as high as one shilling a drop, e.g., the "Subtil Chemical Oyles," such as the distilled oil of cinnamon. All sections of the list have Latin headings, followed by the English equivalents. The order is very close to that in which the simples and the various compound and chemical preparations appear in the first edition of the London Pharmacopœia (1618), issued only seven years before the price list, and it seems that Gordon had access to a copy of that pharmacopœia. The majority of the drugs and medicines he offers are mentioned in the pharmacopœia and, broadly, he makes available all that any prescriber could possibly need. On that basis it might be assumed that it was the prescriber that Gordon had in mind, but such a view is offset by the therapeutic indications he gives by his listing drugs for the poor, and by his range of conserves and confections.

The first section starts with the Simples, i.e., uncompounded drugs and herbs. As might be expected from the *materia medica* of the time, animal substances are plentiful—"greases" or "fatnesses" of ducks, hennes, geeses, swynes, horses, deere, brockes (badgers), beares, human, and eels, the last costing 12s. oz. An unusual item is smelling Indian mussels, of which the Latin equivalent is given as *Blattae bizantiae sive unguis odoratae*, costing 3s. dr. Galls of bulls, henes, partridges and ravens were priced at 2s. to 3s. dr. *Ichthycollae* ("glew of fish"), wolf's guts, prepared, were 8s. dr. Marrow of the bones of oxen, kine and harts all had their uses. Millipedes, described by their local name of "paumer" or "sclaiters" were an expensive item at 10s. dr. though the purchaser would get many for his money. Mummy, the Egyptian variety, cost 2s. dr. A prepared hare's maw (*Coaguli leporis*) could be had for 4s. oz.

Natural drugs and herbs run to many scores: they include aloes of two kinds; asphalte (Jewish clay, Pitch or Brimstone of Sodom) was 2s. dr. Various common herbs cost about 3s. to 4s. a handful. English galangal was then available. Flowers such as violet, borage, waterlily, rose-peony and the sweet rush were priced at 1s. half a handful. Nuts, figs and pomegranates were stocked. It is perhaps a matter of surprise that an apothecary in Aberdeen should hold a variety of precious or semi-precious stones, but they still formed part of the *materia* of the London Pharmacopœia, and were prescribed either in the form of mixtures—the grand compositions such as the Theriacs—or as ingredients in pills. Gordon was willing to supply them, at a price. For iacynths, rubies, saphyrs, emerands, and topazes the cost was 20s. a scruple (20 grains) and for prepared pearls, 24s. scruple.

Gums ranged from amoniacke, elemi, woodbend, guajacke (*guaiacum*) to sagepeni (described as a "plant in Midia"); and two "laity come from India are taccamahacae and caragnae, both of which cost 16s. oz. Alcoholic medicines made up a part of the list. For the chronic patient "such as having olde Diseases, abhoreth medicine," there were medicinal wines or ales, wines at 1s. oz. and ales at 4s. lb. Of these angelica and salvia were indicated for "cold Braynes," euphrasia for clearing the sight, senna for constipation, and so on for the commoner ailments or conditions. A special note was added regarding Hypocratum Vinum; various kinds of Hypocras were offered for banqueting at 3s. oz. or 24s. for the 'mutskens.' (Samuel Pepys, in his Diary for 29th October, 1663, Lord Mayor's day, records that he went to Guildhall "and there wine was offered, and they drunk, I only drinking some hypocras, which do not break my vowe, it being, to the best of my present judgement, only a mixed compound drink, and not



Tower of King's College, Aberdeen. Gordon was responsible for the reconstruction of the tower in 1631.

any wine. If I am mistaken, God forgive me! but I do hope and think I am not.")

Looches (lonochhs) or Eclegmata, described as "licks or lambittives" were of two kinds—the incidentia and detergentia, such as pine and foxes' lungs, and the incrassantia, papaver; these were all sold at 6s. oz. There were many syrups, those having the quality of "cold," e.g., hyssop, thyme and five-roots; those having the quality of "hot," such as orange peel syrup—4s. to 6s. oz. The latter was the price for juleps and the compound syrups. Conserves and confections were of great variety; confections made with white sugar, fruits and roots or with green ginger (styled "transmarina"). That called nucis moscata condita (the favourite musk candy or sweetmeat), a delicacy calling for care in its preparation, was obviously to be bought only at a high price—12s. oz. Gordon supplied dry confections, mixed powders in "buists" (c.f. the old French "boistes" — boxes), and dragees were similarly packaged. Almond dragees were sold at 20s. lb. Some of these confections were described as "saccari incrustata" and were "confected upon seeds," e.g., anise or caraway. If on the other hand, they were what we would now call candied peel, and were made with oranges, the price was 2s. oz. Much of the time of the "excellent artificer" referred to earlier must have been taken up with making sugar confections, for besides those mentioned there were "candisata" or candied confections, i.e., "those run about with sugar candie like crystall," and Gordon was pleased to supply "Fruits and Beastes of all sorts vively represented in shape and colour, of Sugar casten in moulds." Rolled or wrought sugar, with a string through, called "penides," was another variety obtainable.

Tobacco, prescribed for its medicinal purposes in the seventeenth century (and much used during plague scares) could be had flavoured with aniseed oil. This was probably used for infusions. There is no indication that tobacco for smoking was available from the apothecary's shop though its absence could hardly have been due to the effect of King

James I's diatribe against the use of tobacco which was published only a few years before the issue of the price list. Opium, at 8s. drachm, would have made private indulgence a costly pursuit. Almost every item that could be used as a medicine was listed, even the raspings of ebony and ivory, pitch pulled from old ships, and dross or refuse of iron and brass had their place. Sarsaparilla was finding a ready market in Britain at this time, imported from North America and its cost, 10s. oz., was partly due to the high cost of transportation.

Solid Medicaments

Particularly interesting from the pharmaceutical point of view are the solid electuaries "in formas Tabellarum, Morsellarum, rotularum orbicularum, or lozengarum." These, Gordon says, are "solide electuaries run with sugar and these are called tablets. For "trochiskes," trochisi, sive pastille, as much as 12s. drachm is charged. The list includes pills, ointments, plasters (of which *gratia die*, sparadrap and *de crust panis Montag.*, a bread plaster, are specially mentioned). Gordon concludes this section of the list with "finis Medicamentorum." His chemical medicines are in keeping with the generally accepted nature of chemical processes of the textbooks of the day, e.g., so-called distilled waters were not always distilled: they figured much in the *London Pharmacopœia*. Spirits include "aqua vitie of anie colour." What were said to be chemical salts were often no more than the residues after distilling macerated herbs. By the time the printer has come to the end of the chemical medicines he seems to have worn out his long "s" for shilling and thereafter an "s" from a new fount of type comes into use.

The last pages of the list are taken up with Gordon's "diverse medicaments of the vulgar sort," medicines for those who cannot afford the rather costly drugs so far mentioned. He gives therapeutic notes about the special medicines for the poor. He has a good store of cordial waters and antidotes for the "Pest which now ravishing our neighbour Kingdomes, may invade us next . . . if pervent repentence, and frostlie Winter, intervening, preveane not." He charges only two-thirds the price to the poor. Evidently Gordon learned something of the world from his travels for we find him listing a "powder for impotence in men" at 40s. dr. Women may have powders for "bairne-bed rysing" and there are special medicines for children, notably a "syrope for the kinkhost" (whooping cough). In a short cosmetic section of the list, headed "Decorement" are mentioned balls and powders to perfume chambers, water to "sleike the skinne of the face." Another water to make the hair yellow, and pomanders or musk ball for the nose at 20s. the piece. Soap ball to wash the hands were 10s. each.

An Indication to Apothecaries' Stocks

Altogether about 1,500 items are listed, many of which would have required a high degree of pharmaceutical skill in their preparation, had they been demanded by the people of Aberdeen or Aberdeenshire. The price list gives a picture of the kind of stock that an apothecary who prided himself on being up to date would have held, if only to have impressed his customers. Gordon should have prospered in his profession as apothecary, beside his remuneration as Mediciner in King's College, for his prices would have allowed him a good profit. Certainly he could have filled any prescription likely to have come from a physician in the neighbourhood without having to send for items not in stock, that is, assuming that he or his artificer had the skill and knowledge that this list suggests was at the disposal of any customer, rich or poor.

REFERENCES AND NOTES

1. Pollard and Redgrave: *Short-Title Catalogue*, 1475-1640, London, 1926, p. 266.
2. Johnstone and Robertson: *Bibliographia Aberdonensis*, Third Spalding Club, Aberdeen, 1929, Vol. I, p. 223.
3. John Eagle was in business as a chemist and druggist prior to 1868. He claimed registration under the Pharmacy Act of that year. His name remained in the Register of Chemists and Druggists up to 1934. He wrote occasional letters to the *Pharmaceutical Journal*, chiefly on

the older pharmaceutical preparations—the derivation of the name "laudanum" (*Pharm. J.*, 1886-87, 17, 503 and 644) and on milk of sulphur (*Pharm. J.*, 1890-91, 21, 756).

4. Johnstone and Robertson: *op. cit.* pp. 197-98 and 233.
5. Comrie, J. D.: *History of Scottish Medicine*, London, 1932 (2nd. ed.), Vol. I, pp. 380-81.
6. Gordon's *Scots Affairs*, 1637-41, Spalding Club, Aberdeen, Vol. I, p. 276.
7. Upper (or Over) Kirkgate and Nether Kirkgate, both originally barred by gates, are still familiar to citizens of Aberdeen. The Guestrow, an important thoroughfare, runs into Upper Kirkgate. Farquhar's Court remains though not easily identifiable as the Close. The Spittall, a road between the Old and the New towns, is continuous with College Bounds and the High Street of the Old town so that Gordon would have had easy access to King's University.
8. See the text accompanying the map, *Vrbs Abredonae*, prepared by Master James Gordon (Parson of Rothesay) which he delivered to the City Council of Aberdeen on October 16th, 1661, and for which he received a silver piece or cup of twenty ounces, with a silk hat for himself and a silk gown for his bedfellow. "Above a double arche crossed of stone ther standeth a crowne royall octangular supported with aight pillars, upon the toppe of the crowne a stone globe; above it a double crosse guilder; intimating as it wer, by such a bearing, that it is the King's College. It was overthowne anno 1631 by a furious tempest but quicklie afterwards restored in a better forme and condicione by the direction of Patrick Forbes of Corse, the Bishope of Aberdeen; Dr. Williame Gordon overseeing the work, and soliciting everie quher for assistance therunto which was contributed considerablie by the noblemen and gentlemen dwelling in the countrey and neerest shryes."
9. Bulloch, J. M.: *A History of the University of Aberdeen, 1495-1895*, London, pp. 156-57.
10. Gordon's *Scots Affairs*, *op. cit.* Vol. III, pp. 28-29.
11. *Theoremata Physico-medica*—de Generatione, de Melancholia Hypochondria, etc.
12. Johnstone and Robertson: *op. cit.* p. 223.

(I am indebted to Miss V. Anderson of the University of Aberdeen and to Leslie Maefarlane, M.A. (Librarian of the Department of History, King's College, Aberdeen) for helpful information.)

NEW FILMS

Chemistry for the Nuclear Age

GREENPARK PRODUCTIONS, LTD., for the UNITED KINGDOM ATOMIC ENERGY AUTHORITY, 11 Charles II Street, London, S.W.1. Colour. Sound. 35 or 16-mm. Running time 34 minutes.

THE film consists of five short stories each illustrating the importance of the work of the chemist in the nuclear industry. The first deals with the chemical process for treating the used fuel from nuclear power reactors. The second covers uranium dioxide as a fuel for advanced reactor systems. The third story gives an account of the problem of the graphite/CO₂ reaction inside a Calder Hall type reactor. The fourth story deals with radioactive products of corrosion. The last story shows the use of the reactor itself as a research tool in radioactivation analysis.

To Janet—A Son

EOTHEN FILMS, LTD., under the sponsorship of *Farleys Infant Food, Ltd.*, 8 Galleymead Road, Colnbrook, Bucks, for the Royal College of Midwives. Colour, Sound. 16-mm. Running time 50 minutes.

MADE to mark the eightieth anniversary of the Royal College of Midwives, this film was sponsored and produced "in the belief that pain is born of fear and fear is born of ignorance." The film follows frankly, yet delicately, the story of a young wife approaching labour for the first time, and shows her progress to confident motherhood. It illustrates the care and instruction that mothers-to-be may expect from the maternity services, and at the same time pays suitable tribute to Britain's midwives. To underline the point the producers selected as location a small East End hospital [Plaistow Maternity Hospital, London, E.13] rather than a fashionable maternity home. The film should be capable of being shown to most audiences without offence.

ECHOES OF THE PAST AN EXCELLENT EYE-WATER

From "Primitive Physick" by John Wesley. London, 1772. HEAT half an Ounce of *Lapis Calaminaris* red hot, and quench it in half a Pint of *French white Wine*, and as much *white Rose Water*: Then pound it small and infuse it; dropping a Drop or two into the Corner of the Eye. It cures Soreness, Weakness, and most Diseases of the Eye. I have known it cure total Blindness.

Pharmaceutical Society of Ireland

MONTHLY MEETING OF COUNCIL

MEMBERS of the Pharmaceutical Society of Ireland will be asked to pay a total annual fee of £10 10s. when the new Pharmacy Act comes into operation.

That was agreed at the Council meeting held in Dublin, on July 10, when, after consideration, it was decided to fix the fees and subscriptions as follows: Retention fee, £7 7s.; membership fee, £2 2s.; member's contribution to THE CHEMIST AND DRUGGIST (the Society's official journal), £1 1s.

THE REGISTRAR announced that the Act was now passed and would come into operation when the Minister made an order in the near future. It was explained that up to the present the annual membership fee (of £4 4s.) had included the subscription to THE CHEMIST AND DRUGGIST, but that, under the new arrangement, the subscription would be optional.

After MR. T. R. MILLER had said he would prefer to see an Irish journal made the official organ of the Society, MR. G. C. O'NEILL said he would like to see THE CHEMIST AND DRUGGIST remain the official journal. He did not think they would be able to replace a journal of the standing of the C. & D., which provided such broad news on an international front. MR. MILLER urged that the retention fee should be determined on the basis that it might be many years before it could be increased again.

MR. R. J. POWER favoured fixing the fee at not less than £5 5s.

Stating that a figure in excess of that amount should be fixed, MR. M. COSTELLO said the only danger was that it might discourage pharmacists who felt it was not essential for them to be on the register. He would like to see, in such cases, an arrangement, possibly under Comhairle na Nimheanna, under which a separate fee of about £2 2s. would be charged to keep open shop for the sale of poisons. He thought a retention fee of £5 5s. too small, and favoured one of £6 6s. or £7 7s. He suggested £2 2s. for the membership fee and was prepared to subsidise the official journal.

Asked by MR. M. L. CASHMAN how many of the 2,600 licentiates might be expected to pay the retention fee, THE REGISTRAR replied: "About 1,800."

When THE PRESIDENT (Mr. F. Loughman) said that it had been estimated that about 600 licentiates would decline to pay the retention fee, MR. CASHMAN asked the basis on which that figure had been arrived at. THE PRESIDENT explained it was based on those living outside the State, or who had retired.

THE REGISTRAR expressed sympathy for those members who had contributed voluntarily for over thirty years, and who would now be asked to increase their contributions. Regarding Mr. Miller's concern that they might not be able to increase the retention fee for several years, THE REGISTRAR explained that regulations made by the Society must be approved by the Minister for Health. There was nothing to prevent them going to the Minister when they thought fit.

"New Phase" in Pharmacy

MR. J. P. O'DONNELL said that members being asked to pay "a fairly heavy retention fee" might consider that it was because the Society needed finance, but the attempt should be made to divorce that aspect when considering the fee. Pharmacists must begin to think on completely different lines from heretofore. Mr. O'Donnell proposed a retention fee of £6 6s. or £7 7s. and a membership fee of £1 1s. So that pharmacists throughout the country might realise that the profession was entering a new stage it was important that the retention fee should be fairly substantial. The fee would have to be looked upon as "a new face and

a new phase in pharmacy." Chemists would have to realise that they were performing a professional service.

MR. J. J. O'REGAN said that pharmacists did not always realise there was a business side to the profession. While the Council might be unpopular with a small section in fixing a £7 7s. retention fee, he felt the majority would endorse the decision. He added: "We must realise we owe a very special duty to pharmacy, and if we are not going to be dedicated to it how can we expect those whom we represent to think along those lines?" He thought that it was a pity such a large number of the profession did not take an interest in pharmaceutical activities.

MR. V. G. McELWEE, favouring a total subscription of £10 10s., said he thought it was a reasonable fee.

Treasurer's Viewpoint

As treasurer, MR. D. J. KENNELLY said he was pleased to hear the views expressed. He had no sympathy for those pharmacists who had displayed no interest in the Society in the past having to pay a retention fee, but thought pharmacists should be encouraged to become members. The fact should not be neglected that in a couple of years a number of graduates would be receiving B.Sc. degrees in pharmacy. Some of them might not necessarily register as pharmaceutical chemists. Entering industry, they might by-pass the Society. He was apprehensive that the Society might lose quite a number in that category.

The speaker said he was not concerned overmuch with those outside retail pharmacy because, as pharmacists, they were bound to pay a retention fee. He was anxious to encourage all to become members, and having done so, to take the journal. It should be remembered that, if they did not get sufficient members to subscribe to the journal, the Society might find itself without one.

MR. O'NEILL said he preferred not to vote on the membership fee issue, because, as a life member, it did not affect him financially.

On the motion of MR. MILLER, seconded by MR. O'REGAN, it was unanimously decided to fix the retention fee at £7 7s.

On the motion of MR. H. P. CORRIGAN, seconded by MR. COSTELLO, a £2 2s. membership fee was unanimously agreed.

A member's contribution of £1 1s. was unanimously agreed to, on the motion of MR. COSTELLO, seconded by MR. CORRIGAN, after THE PRESIDENT had pointed out that the subscription would be optional.

In reply to MR. R. J. POWER, THE PRESIDENT said it would be necessary to hold a special meeting to deal with the question of other fees, including modified fees for overseas members. MR. KENNELLY suggested a modified fee in the case of overseas members.

The scales fixed by the Council will be subject to the approval of the Minister for Health.

In reply to MR. MILLER, THE REGISTRAR said that, as instructed, he had forwarded a memorandum disclosing the Society's income and expenditure to the Minister for Education in support of their claim for a grant towards the College extension fund.

Visitors were appointed to the Second Professional examination to be held later in the month.

When THE REGISTRAR read a letter from the Department of Health requesting retail chemists to eliminate thalidomide preparations from stock, MR. CASHMAN said that the newspapers' account of the matter had been entirely different from the wording of the Department letter. The matter was now "ancient history," yet the Press had contrived to make it appear new. He had removed his stock of thalidomide preparations long ago, and he felt that

the Society should have written to the Minister and also to the Press stating that the problem first came to light almost a year ago. They should make it clear that pharmacists had rid themselves of stocks long before the Minister's letter had been sent out. Mr. Cashman resented the tone of the newspaper reports and felt they should make their position clear. He was also in favour of writing to the Minister pointing out that chemists were aware of the position regarding thalidomide preparations many months ago and had got rid of their stocks.

Need for a Press Relations Officer

THE REGISTRAR said the papers had erroneously stated that the products had been freely available to the public until recently. In fact they had been available only up to January.

MR. R. J. POWER said that the impression that the Press reports had created emphasised the necessity of having a Press relations officer who could state the Society's case in such matters. They should not have to be informed of pharmaceutical developments through the public Press.

MR. R. J. SEMPLE urged that some form of control should be introduced to examine each preparation from abroad. As matters stood manufacturers could sell preparations without any guarantee of quality. It was up to the Society to see that certain standards were adhered to.

THE PRESIDENT pointed out that they had no organisation to look after that aspect.

MR. MILLER drew attention to the Bureau of Standards that was being reorganised under a new chairman.

THE REGISTRAR said the Bureau was not prepared to undertake pharmacological tests. That had been investigated but the Bureau had no power to carry out such work.

MR. MILLER said that the Bureau had recently been given a new lease of life . . . it would be worth the Society's while to have the matter reinvestigated.

Referring to his recent visit to Brussels for the opening of the new laboratories of the Belgian Pharmaceutical Society, THE PRESIDENT said the laboratories were impressive, and catered for the testing of all types of medicaments. In addition it issued certificates for serums, vaccines and other preparations. Twenty-two pharmacists were employed in the laboratories, together with sixty other assistants. The laboratories were operated without Government assistance. The Minister for Health had attended the opening, and two other Ministers of State attended subsequent functions. "From what I saw I came away with the impression that pharmacy enjoys a high place in the professional life of the country." The president added that he had submitted copies of addresses delivered at some of the functions to the Dean of the College of Pharmacy (Dr. R. F. Timoney), who was of the opinion that Belgium was well ahead of the Republic in the pharmaceutical field.

Mr. Loughman continued: "I got the impression that the Society was immensely prosperous—unlike our Society, which is struggling all the time. . . Our Society, in comparison, is like a small parochial committee. We must aim at something higher."

A letter was read from Mr. Joseph Britton (secretary, Clare Pharmacists' Association) urging the College to appoint an inspector to eliminate existing abuses. He pointed out that they would prefer a non-pharmacist, or a pharmacist from an outside country.

THE PRESIDENT replied it was the Council's intention, now that the new Act had become law, to appoint an inspector.

THE REGISTRAR reported that he had written to manufacturers of veterinary products setting out a statement of policy of the Society regarding distribution of such preparations. To date about twenty-eight replies had been received, all agreeing with the Society's policy and pledging support for it. Three companies had had reservations,

however, pointing out that they had some products which they could not release to retail pharmacists because they could not extend the warranty if the products did not go directly to veterinary surgeons. One product, it was pointed out, had to be delivered in a matter of hours, and it would not be practicable to make it available to chemists. In general, however, they all agreed to include pharmacists on their supply lists.

The registrar was instructed to reply to the firms expressing the Council's thanks for the support accorded to the Council policy. It was decided to discuss the matter further when the remaining replies were received.

Asked by MR. O'NEILL what the position was under the new Act with regard to Licentiates of the Apothecaries' Hall being registered by the Society, THE REGISTRAR said that doctors who had qualified before the Act came into operation would have another year, and students another seven years, in which to register.

PROFESSOR P. J. CANNON wrote stating that equipment necessary for the teaching of pharmacology and physiology for second- and third-year students doing the degree course would be made available to the College of Pharmacy by University College, Dublin. He requested the Council to furnish him with plastic-topped benches to accommodate the equipment and instruments, and enclosed specifications. The Council agreed to provide them, and the registrar was instructed to convey the thanks of the Council to University College, Dublin, through Professor Cannon, for the facilities provided.

THE REGISTRAR reported that thirty-four of the seventy students who had presented themselves for the first pharmacy examination conducted at U.C.D. had passed. Students who had not been successful would have an opportunity of doing the supplemental examination in September.

Prohibited Veterinary Hormone Preparations

MR. O'DONNELL said that, as a member of the Consultative Committee on the Animals Remedial Act, he had been informed by the Minister for Agriculture that the manufacture and sale of hormone products for veterinary use had been prohibited from June 2, except under licence. The Order was S.I., No. 96, 1962, and he would like pharmacists to be made aware of the substances prohibited. They were chlorotrianisene, dienoestrol, ethynloestradiol, hexoestrol, oestradiol, oestradiol benzoate (oestradiol monobenzoate), oestradiol dipropionate, oestradiol valerianate, oestriol, oestrone, stilboestrol, stilboestrol dipropionate, together with any oestrogenic substances or preparations, whether prepared from animal tissues, animal fluids or plant tissue or prepared synthetically, that, on being administered to animals or incorporated in animal feeding stuffs, produced oestrogenic effects.

MR. KENNELLY thought it extraordinary that such legislation could be introduced without consulting the Council.

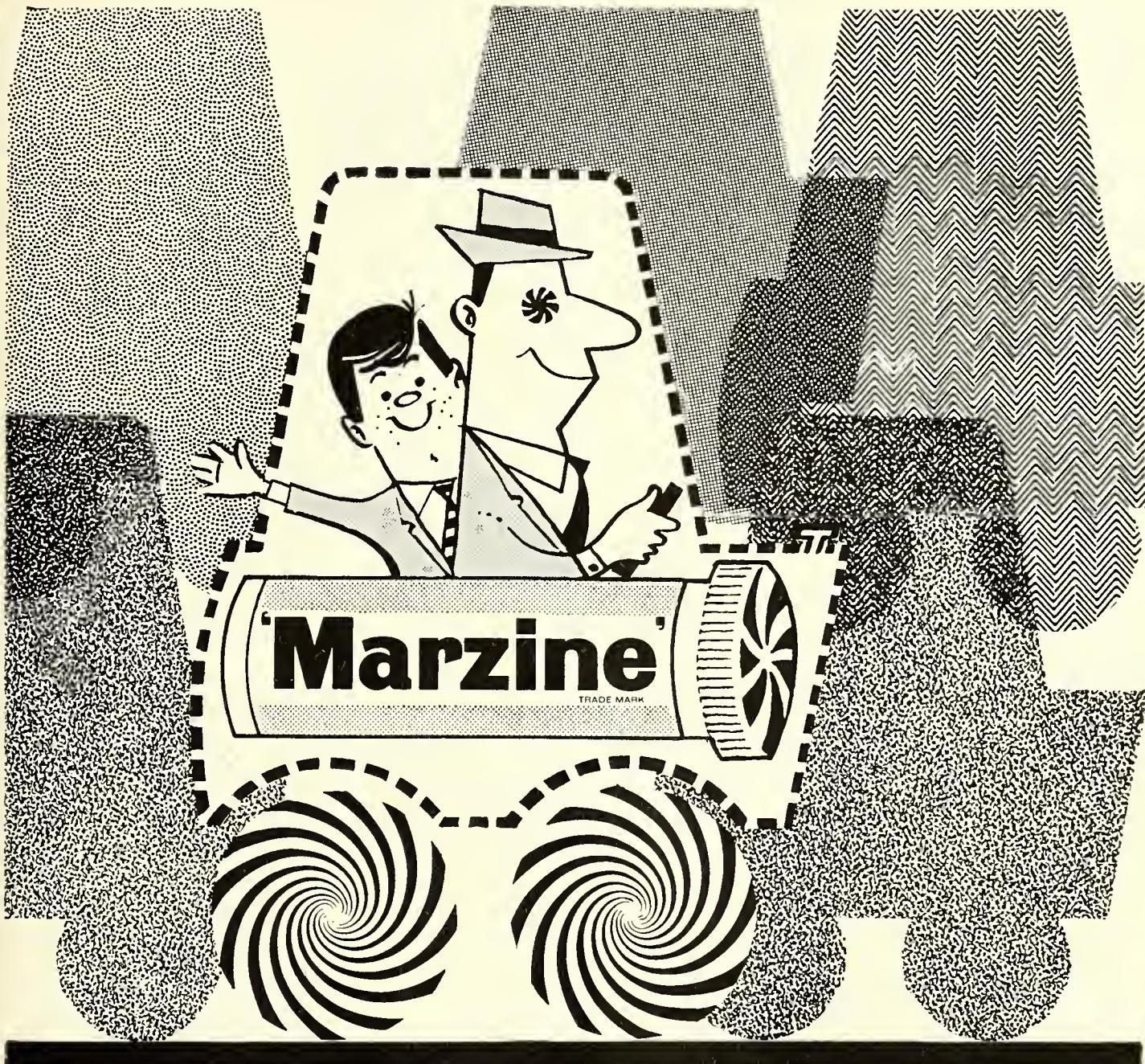
THE REGISTRAR reported that the second Professional examinations had commenced on July 3 and was to continue until July 26. The Assistants' examinations would begin on July 26 and continue for two or three days. Nine candidates had been entered for the Druggist examination.

MR. T. B. O'SULLIVAN reported satisfactory progress in the preparations for Pharmacy Week (see *C. & D.*, July 14, p. 28). The Minister for Health had accepted an invitation to attend the banquet.

THE REGISTRAR reported the death of Mr. Richard Laffan, L.P.S.I.

Changes of address noted were: Mrs. Marie Cummins, L.P.S.I., to 74 Monkstown Road, co. Dublin; Mrs. Ursula Butler, L.P.S.I., to Padua, Riverbank, Douglas Road, Cork; Miss Mary Shinnick, M.P.S.I., to 12 North Main Street, Cork; Thomas C. Cassidy, M.P.S.I., to New Street, Bantry, co. Cork; Maurice Power, M.P.S.I., to 4 Celtic Park Avenue, Dublin, 9; Timothy S. Maher, L.P.S.I., to Boots, Ltd., Criterion Buildings, Piccadilly Circus, London, W.1, and Stephen J. Carden, L.P.S.I., to 29 Corfe Avenue, South Harrow, Middlesex.

(To be concluded)



IT'S PEAK TRAVEL TIME
FOR
'Marzine'

More and more travellers want more and more 'MARZINE' as the travel season rises to its peak! And stepping-up the demand still further—widespread advertising constantly reminds travellers to "remember 'MARZINE' and forget travel sickness". 'MARZINE'—safe for young and old—is all set for bigger sales than ever. Profit from this big demand by making full use of the brilliant 'MARZINE' display aids. Show them on your counter and in your window and help your customers to remember 'MARZINE'!

'MARZINE' makes news in
DAILY EXPRESS · DAILY MIRROR
WOMAN · WOMAN'S MIRROR
WOMAN'S OWN · WOMAN'S REALM
GO MAGAZINE

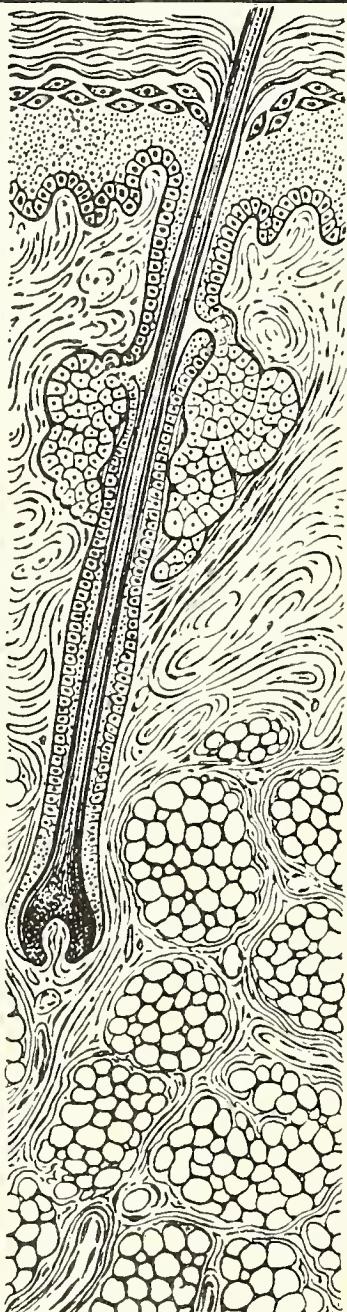


BURROUGHS WELLCOME & CO.
(THE WELLCOME FOUNDATION LTD.) LONDON

sevana

Trade Mark

(soap-free washing tablet)



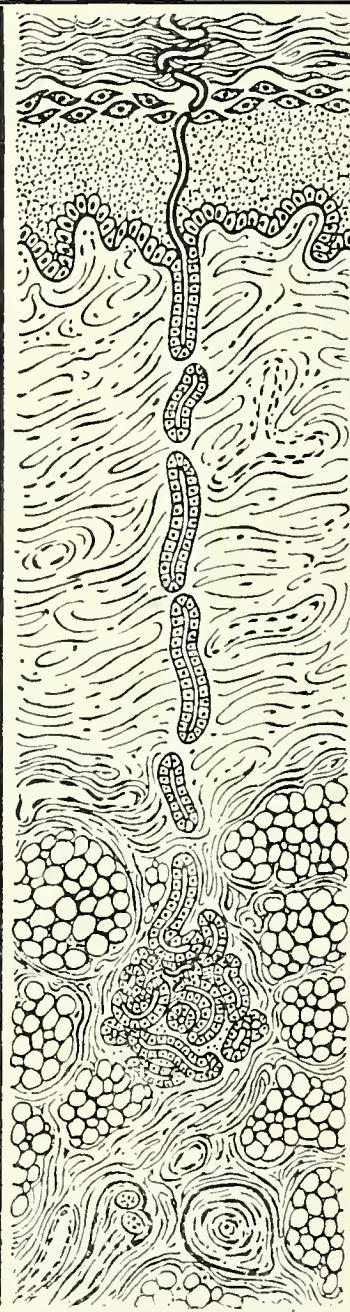
An entirely new and soap-free way to cleanse and care for skin in health or disease.

Used with hard or soft, cold or warm water, it will efficiently cleanse the skin without upsetting its normal, slightly acid, pH.

Sevana is proving a valuable help in the management of eczematous skin conditions or other dermatoses when soap cannot be tolerated.

Sevana owes its cleansing properties to sulphated fatty alcohols, the low molecular weight fractions of which have been excluded to avoid possible irritancy.

Patients should be recommended to buy it from retail pharmacists.



THE ABOVE ADVERTISEMENT IS CURRENTLY APPEARING IN MANY MEDICAL JOURNALS

*Further information about Sevana is available to Pharmacists on request from:
Evans Medical Ltd. (Department MPAD), Speke, Liverpool, 24*



EVANS MEDICAL LTD
LIVERPOOL AND LONDON

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 18: Unconfirmed reports from Portugal during the week indicated that ERGOT for shipment was valued at 10s. per lb. Holders of spot material in consequence were asking 11s. per lb. against 8s. 6d. recently.

Jamaican GINGER on the spot touched the 600s. per cwt. mark. with a rise of 15s. during the week; a year ago its value was 220s. Australian medium-amber HONEY, although unchanged in price, may become dearer as demand at present is equal to, if not in excess of, available replacements. CHILLIES were somewhat easier in price. Chinese MENTHOL for forward delivery dropped 2s. 6d. per lb. to 45s., c.i.f. and offers of natural material from other sources were shaded by sixpence per lb. SAFFRON was unchanged on the spot although origin was not quoted. Silver-grey COCHINEAL was short on the spot and prices were nominal. Canada BALSAM was easier at the lower end of the scale because of the exchange rates. SENEGA collections have not yet begun but offers of new crop indicated a price of 15s. 6d. per lb., c.i.f. From Tutticorin it was reported that prime SENNA LEAVES were arriving in moderate lots. There is however a scarcity of f.a.q. PODS which coincides with a big demand for that grade especially from Hamburg. Shipments of senna from that port during June were as follows:

| | U.K. | U.S. | EUROPE |
|--------|------|------|--------|
| SENNAS | tons | tons | tons |
| LEAVES | 6 | 62 | 133 |
| PODS | 8 | — | 25 |

In ESSENTIAL OILS Ceylon CITRONELLA continued its firmer tone but LEMONGRASS dropped a further 1s. 3d. per lb. in both positions.

CASTOR OIL was firmer.

ZINC OXIDE prices were reduced by 50s. per ton on July 16 making the B.P. grade now £92 10s. for 2-ton lots.

Pharmaceutical Chemicals

ALOIN. — Micro-crystalline, 14-lb. lots, 35s. 6d. per lb.

AMIDOPYRIN. — Per lb. 16s. 8d. for 5-cwt. lots; 1-cwt., 17s. 5d.

AMYLOBARBITONE. — B.P.C. is 78s. per kilo for less than 25-kilo lots and SODIUM, B.P.C., 88s. per kilo.

BARBITONE. — Less than 25-kilo lots, 53s. 6d. per kilo. SODIUM derivative, 51s. 9d. per kilo.

BUTOBARBITONE. — B.P.C., 87s. 6d. per kilo in less than 25-kilo lots.

CANTHARIDIN. — Per oz. 222s. 6d. for 4-oz. lots.

CHLOROXYLENOL. — B.P., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton lots, £26 per kilo.

COCAINE. — 16-oz. lots HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CYCLOBARBITONE. — Less than 25 kilos; B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

DIGOXIN. — 100-gm. lots, 78s. per gm.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

HOMATROPINE. — 16-oz. lots (per oz.); ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.;

METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

LACTOSE. — B.P. in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE. — B.P. crystals, 225s. per cwt.

METHYL PHENOBARBITONE. — B.P.C., 80s. per kilo for less than 25-kilo lots.

NARCOTINE. — ALKALOID and HYDROCHLORIDE, 3s. 9d. per oz. (132s. kilo) for under 35-oz. lots.

OPIATES. — Home trade prices (per oz.) subject to D.D.A. Regulations:—

| | 35 oz. and over | | Under 35 oz. | |
|----------------|-----------------|----|--------------|----|
| | s. | d. | s. | d. |
| CODEINE | | | | |
| ALKALOID | 54 | 0 | 55 | 0 |
| HYDROCHLORIDE | 47 | 3 | 48 | 3 |
| PHOSPHATE | 41 | 0 | 42 | 0 |
| SULPHATE | 47 | 3 | 48 | 3 |
| MORPHINE | | | | |
| ACETATE | 50 | 0 | 51 | 0 |
| ALKALOID | 61 | 3 | 62 | 3 |
| HYDROCHLORIDE | 50 | 0 | 51 | 0 |
| SULPHATE | 50 | 0 | 51 | 0 |
| TARTRATE | 60 | 0 | 61 | 0 |
| ETHYL MORPHINE | | | | |
| ALKALOID | 63 | 3 | 64 | 3 |
| HYDROCHLORIDE | 54 | 0 | 55 | 0 |
| DIAMORPHINE | | | | |
| ALKALOID | 54 | 9 | 55 | 9 |
| HYDROCHLORIDE | 59 | 9 | 60 | 9 |

PENTOBARBITONE. — Under 25-kilo lots, 115s. per kilo.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A. Regulations, 5-kilo lots, 300s. per kilo; 2½ kilos, 350s.; 500 gm., 425s. per kilo.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilo, 50s. 6d.; 500-gm., 54s. 6d. SODIUM SALT, 55s. 6d. per kilo for 5-kilo lots.

PHOLCODINE. — 8-oz. lots, 95s. 9d. per oz.

PITHALYL SULPHATHIAZOLE. — Five-kilo lots, 35s. per kilo.

QUINALBARBITONE. — Sodium salt is 120s. per kilo for under 25-kilos.

SALICYLIC ACID. — One-cwt., 3s. 4½d. per lb.; 5-cwt., 3s. 2½d. per lb.

SALOL. — B.P.C., 9s. per lb. (1-cwt. lots).

SANTONIN. — 5-kilo lots, 360s. per kilo.

SODIUM PANTOTHENATE. — £6 10s. per kilo.

STREPTOMYCIN. — BASE or SULPHATE, 9d. per gm. Same prices for DIHYDRO.

STRYCHNINE. — 100-oz. lots: ALKALOID and HYDROCHLORIDE, 10s. 6d. per oz.; SULPHATE, 9s. 6d.

SUCCINYL SULPHATHIAZOLE. — Five-kilo lots, 42s. 6d. per kilo.

SULPHACETAMIDE. — SODIUM derivative, about 40s. per kilo in 100-kilo lots.

SULPHADIAZINE. — Five-kilo lots, 65s. per kilo; 50-kilos, 60s.

SULPHADIMIDINE. — 50-kilo lots are 55s. per kilo.

SULPHAGUANIDINE. — 100-kilo lots, about 19s. 6d. per kilo.

SULPHAMETHIZOLE. — Per kilo. — 5-kilo lots, 130s.; 50-kilo, 125s.

SULPHANILAMIDE. — One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE. — Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE. — 100-kilos, 32s. per kilo; 50 kilos, 33s.

SULPHOCARBOLATES. — SODIUM PHENOSUL-

PHONATE, B.P.C., 1949 (powder), 12s. 10d. per kilo in 50-kilo lots and crystals, 12s. 2d. per kilo. ZINC, B.P.C., 1949 is quoted at the same rate.

SULPHUR. — (Per ton). SUBLIMED FLOWERS, B.P., £47 10s.; COMMERCIAL, £45; POWDER, £19 to £24; PRECIPITATED, B.P., £100; ROLL, £24. All ex store.

TANNIC ACID. — The B.P. levis, ex ether, 9s. per lb.; B.P. powder, 8s. 6d. (5-cwt. lots).

TARTARIC ACID. — (In kegs): 1-ton lots, 283s. per cwt.; 10-19 cwt., 286s., 5-9 cwt., 289s.; 1-4 cwt., 292s. Bags 8s. cwt. less. Crystals 7s. per cwt. more than powder and granular.

TEREBENE. — B.P.C., one-carboy lots, 4s. 5d. per lb.

TERPIN HYDRATE. — Less than 12½ kilos, 11s. 6d. per kilo.

THEOPHYLLINE. — 12½-kilo lots: ALKALOID ANHYDROUS, 33s. per kilo and B.P., 32s. 9d.; AMINOPHYLLINE, 30s. per kilo, 12½ kilos, 31s. per kilo.

Alcohol

BRITISH spirit (fermentation grades) per proof gall.:—

ABSOLUTE ALCOHOL, 95 per cent., 74·5 o.p., from 3s. 11d. to 4s. 1d. for same quantities; the special high strength (99·9 per cent., 75·2 o.p.), from 4s. 3d. to 4s. 8d. (in drums) for 1,000-40 gallons. (bulk). DOUBLY RECTIFIED ALCOHOL (S.V.R.) 95·8 per cent., 68 o.p., from 3s. 9d. to 3s. 11d. R.R. ABSOLUTE ALCOHOL (re-rectified), 99·7 per cent., 75 o.p., 8s. per proof gall. net (for 40-gall. drums). DUTY is £11 13s. 7d. per proof gall.

ETHYL ALCOHOL: (95 per cent. Gay Lussac, 66 o.p.): where the minimum delivery is 2,500 bulk gall. or over, 3s. 7d.; 1,500, 3s. 8d.; 500, 3s. 9d. Prices are exclusive of duty and are for tank wagon lots. In 40-90-gall. drums there is a surcharge of threepence per proof gall.

SYNTHETIC GRADES (supplied only to buyers authorised by Customs and Excise to buy duty free) the 95 per cent. is from 2s. 10d. to 3s. 0d. and ABSOLUTE (99·5 per cent.), 3s. 1d. to 3s. 3d. bulk deliveries.

Methylated Spirit

Methylators' rates per bulk gall. in Great Britain are as follows:

INDUSTRIAL METHYLATED SPIRIT: Strength 61 o.p., 500 gall. and over, 5s. 1d.; 100 gall. and under 500 gall., 5s. 6d.; 40 gall. and under 100 gall., 5s. 11½d.; 10 gall. and under 40 gall., 6s. 5½d.; 5 gall. and under 10 gall., 6s. 11½d. Strength 64 o.p., halfpenny per gall.; 66 o.p. (B.P.), one penny; 68 o.p., 3½d. more than the above rates with 74 o.p. at 5s. 10½d.; 6s. 3½d.; 6s. 9d.; 7s. 3d. and 7s. 9d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of perfumery quality prices are from 6s. 6d. (tank wagon) for 500 gall. to 8s. 0½d. (10 gall. drums) for 64 o.p.

MINERALISED METHYLATED SPIRIT: Strength 64 o.p., in one delivery, 500 gall. upwards, 5s. 5½d. in drums; 100 gall. and under 500 gall., 5s. 10½d.; 40 gall. and under 100 gall., 6s. 4d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 4d.

PYRIDINISED INDUSTRIAL METHYLATED SPIRIT: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 3½d.; 500 gall. in 40-gall. drums, 5s. 5½d.; 100 gall. and under 500 gall. (in drums), 5s. 10½d.; 40 gall. and under 100 gall., 6s. 4d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 4d.

Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 9d. per lb.

AGAR.—Kobé No. 1, 12s. per lb. in bond; shipment, 11s. c.i.f.

ALOES.—Cape primes, spot, 175s. per cwt.; shipment, 162s. 6d. to 165s., c.i.f. Curaçao, spot, 385s.; shipment, 360s., c.i.f.

ANISE.—Chinese STAR 180s. per cwt., spot; duty paid; shipment, 160s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 19s. 6d. to 25s. COPAIBA: B.P.C. grade, 11s. on spot. PERU: Spot, 8s. 6d., duty paid. TOLU: B.P., from 10s. 9d.

BELLADONNA.—Herb and LEAVES unobtainable. ROOT, 1s. 10d. per lb. for material testing over 0.5 per cent.

CARDAMOMS.—Aleppo greens, 8s. 6d. per lb., spot; shipment, 7s., c.i.f.

CASCARA.—Spot, 250s. per cwt.; new crop for July shipment, 207s. 6d., c.i.f.

CHAMOMILE.—Roman-type, 6s. 6d. per lb.; German, 5s. 9d.

CHERRY BARK.—Thin natural, 1s. 9d. per lb.; shipment, 1s. 6½d., c.i.f.

CHILLIES.—Nigerian, 195s. per cwt. Mombasa, 250s.; Zanzibar, 220s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 8½d.; 3 O's, 5s. 4½d.; O, 5s.; quillings, 3s. 7½d.; featherings, 1s. 9¾d.

CLOVES.—Zanzibar spot, 3s. per lb. for standard grade; shipment, 2s. 8½d. c.i.f.

COCHINEAL.—Canary Isles black-brilliant and silver grey, 9s. per lb. Peruvian, silver-grey, 6s. 6d. nominal.

COCILLANA.—Bark, 2s. per lb. on the spot.

COLOCYNTH PULP.—Spot, 2s. per lb.

ELEMI.—Spot, 1s. 9½d. per lb. Shipment, 1s. 5d., c.i.f.

ERGOT.—Spot, East European, 6s. 9d. per lb.; Portuguese, 11s.; shipment not offering.

FRANGULA.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot cleared. No offers for shipment.

GINGER.—(Per cwt.) African spot nominal; shipment, 420s. per cwt., c.i.f. Jamaican No. 3, spot, 600s.; shipment, 550s., c.i.f. Cochin, spot, 215s.; shipment, 205s., c.i.f.

GUM ACACIA.—Kordofan-cleaned sorts, 145s. per cwt., spot; shipment, 138s., c.i.f.

HENNA.—Indian, spot, 85s. to 95s. per cwt.; shipment, 58s., c.i.f.

HONEY.—(Per cwt.) Australian light amber, 100s. to 105s. and medium amber, supplies short at 95s. to 100s. Argentine, 122s. 6d. to 127s. 6d.; Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s. Mexican, 110s. to 115s. ex warehouse.

IPECACUANHA.—Spot cleared. Shipment (c.i.f.): Colombian offering at about 57s. 6d. per lb.; Matto Grosso, 60s.; Costa Rican, about 82s.

JUNIPER BERRIES.—Italian, 125s. per cwt.; German, 120s.

KARAYA.—No. 1 gum, spot nominal; No. 2, 285s. per cwt.

KOLA NUTS.—African, 6d. spot and 4½d., c.i.f. (per lb.).

LANOLIN.—ANHYDROUS B.P. is from 140s. to 155s. per cwt. in 1-ton lots delivered, free drums.

LEMON PEEL.—Spot, 2s. 3d. per lb.

LINSEED.—Whole, 75s. per cwt.; crushed, 105s.

LIQUORICE.—Natural root: Russian 67s. 6d. per cwt.; Anatolian, 57s. 6d.; Persian, 52s. 6d.; Sicilian 1-kilo bundles, 1s. 6d. per lb. Block juice: Anatolian from 200s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 6s. 3d. per lb.

MACE.—Whole pale blade, 21s. per lb. spot.

MALEFERN.—Root of 2 per cent. yield quoted at 65s. per cwt., c.i.f.

MENTHOL.—Chinese: spot, 52s. 6d. per lb. duty paid; September-October shipment, 45s., c.i.f. Brazilian, 31s. 6d. in bond; 30s., c.i.f. Formosan, 32s. 6d. in bond; July-August shipment, 28s., c.i.f.

MERCURY.—About £61 10s. per flask of 76-lb.

NUTMEGS.—West Indian 80's, 7s. 9d. per lb., spot; sound unassorted, 6s.; defectives, 5s.

NUX VOMICA.—Cochin, 75s. per cwt. on the spot.

ORANGE PEEL.—Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian, 11½d.; Spanish, 1s.; bitter ribbon 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN.—No. 1, 30s. per lb., spot.

PEPPER.—White Sarawak spot, 3s. 2d. to 3s. 3d. per lb. as to quality; July shipment, 3s., c.i.f. Black Sarawak spot, 2s. 8½d.; shipment, 2s. 4d., c.i.f. Black Malabar, 310s. per cwt. spot; July-August shipment, 290s., c.i.f.

PEPPERMINT.—Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 616s. per cwt. nominal; shipment, 500s., f.o.b.

PODOPHYLLUM.—*Emodi*, no offers, *Peltatum*, 365s. per cwt.

PYRETHRUM.—Extracts—partially dewaxed, 25 per cent. pyrethrins, 74s. 6d. to 65s. 6d. per lb.; decolourised dewaxed, 20 per cent., 66s. 6d. to 59s. 4d. per lb.

QUASSIA.—Spot 55s. per cwt.

QUILLAIA.—Spot 200s. per cwt. nominal. Shipment no offers.

RHUBARB.—Chinese small rounds from 4s. 6d. to 9s. per lb. on the spot.

SAFFRON.—Mancha selecta, 170s. per lb. spot.

SARSAPARILLA.—Jamaican native red spot, 2s. 6d. per lb.; prompt shipment, 2s. 1d., c.i.f.

SEEDS.—(Per cwt.) ANISE.—Cyprian, 295s. in bond. Syrian, 275s. in bond. CARAWAY.—Dutch, 160s., duty paid. CELERY.—Indian, 235s., spot; new crop for July-August shipment dearer at 180s., c.i.f.

CORIANDER.—Moroccan, 80s., duty paid; Indian bold 67s. 6d., shipment, Moroccan new-crop for July-August shipment, 44s., c.i.f. quoted. CUMIN.—Iranian, 140s., duty paid. Cyprian, 165s.; shipment, Iranian, 127s. 6d., c.i.f. DILL.—Indian, 95s.; shipment, 64s., c.i.f. FENNEL.—Indian, 115s.; shipment, 97s., c.i.f. FENUGREEK.—Moroccan now landing, 75s., duty paid. Shipment dearer at 52s., c.i.f. MUSTARD.—English, 65s. to 80s., according to quality.

SENEGA.—New crop indicated at 15s. 6d. per lb., c.i.f.

SENNA.—(Per lb.) *Tinnevelly* LEAVES, new crop, spot: Prime No. 1, 2s. 4d.; prime No. 2 cleared; No. 3, f.a.q., 1s. 1d. PODS: hand-picked, No. 1, 2s. 6d.; No. 2, 1s. 9d.; manufacturing cleared. *Alexandria* pods: Manufacturing, 1s. 7½d.; hand-picked, small lots from 4s. to 7s. 6d. as to quality.

SHELLAC.—F.O.T.N., 190s. per cwt.; No. 1, 205s.: F.O., 220s. to 270s., spot.

TURMERIC.—Madras finger 150s. per cwt. spot; shipment, 145s., c.i.f.

WAXES.—(Per cwt.) BEES'.—Dar-es-Salaam, spot, 430s.; shipment, 422s. 6d., c.i.f. Abyssinian, spot cleared; shipment, 375s., c.i.f. Sudanese, spot, 420s.; shipment, 372s. 6d., c.i.f. CANDELILLA, spot, 465s.; CARNAUBA, fatty grey, spot, 385s.; shipment, 355s., c.i.f.; prime yellow, spot, 610s.; shipment, 585s., c.i.f.

WITCH HAZEL LEAVES.—Spot, 2s. 11d. per lb.

Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

BAY.—West Indian about 25s. per lb. on the spot.

BOIS DE ROSE.—Brazilian, 26s. per lb. nominal, on the spot.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot 56s. 6d. per lb.

CAMPHOR, WHITE.—Chinese, 2s. 3d., duty paid, per lb.; shipment not offering.

CARAWAY.—Imported oil, 35s. per lb.

CASTOR.—Home produced B.P. oil, spot, £152 per ton naked ex mill (2-ton lots).

CINNAMON.—From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, 12s.; Seychelles, 7s. 6d. spot.

CITRONELLA.—Ceylon, spot, 6s. 10½d.; shipment, 6s. 10d. per lb., c.i.f. Formosan, 9s. 3d. in bond; afloat, 9s., c.i.f.; July shipment, 8s. 10d., c.i.f.; Chinese, 8s. 7d., c.i.f.; spot 9s. in bond.

CLOVE.—Madagascar leaf spot, 8s. 3d. per lb., duty paid; shipment, 7s. 1½d., c.i.f. RECTIFIED 87-88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt.

COD-LIVER.—B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CUBEB.—Spot supplies of imported are 85s. per lb.

CUMIN.—Imported oil, 88s. 6d. per lb.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

LEMONGRASS.—Spot, 16s. 3d. per lb.: July shipment, 15s. 9d., c.i.f. August, 15s. 4½d., c.i.f.

LIME.—West Indian distilled, 48s. per lb. on the spot.

ORANGE.—Floridan sweet oil, 3s. per lb.: West Indian, 3s. 6d.; West African, 14s. 6d.; Israeli, 5s.; Terpeneless, 225s.

PALMAROSA.—Spot cleared. Shipment, 52s. 6d. per lb., c.i.f.

PATCHOULI.—Penang is 25s., duty paid and 21s., c.i.f., per lb.

PENNYROYAL.—Spot is 20s. per lb., duty paid; new crop prices awaited.

PETITGRAIN.—Paraguay, 18s. 6d. per lb., spot; shipment, 17s. 6d., c.i.f.

PIMENTO.—English-distilled berry from 135s. per lb.; imported, 32s. 6d. Rectified leaf, 19s. 6d. per lb.

PINE.—*Pumilionis* 32s. per lb.; *sylvestris*, 9s., *abietis*, 15s.

ROSEMARY.—Spanish is 9s. per lb. spot.

RUE.—Spanish is 23s. 6d. per lb. spot.

SAGE.—Spanish 9s. per lb., Dalmatian, 23s.

SANDALWOOD.—Spot Mysore, 145s. per lb.; forward, East Indian, 135s., c.i.f.

SASSAFRAS.—Brazilian is from 2s. 3d. per lb., duty paid.

SPEARMINT.—American oil on the spot 26s. per lb.

YLANG-YLANG.—Best oil about 145s. lb.

TANGERINE.—From 34s. per lb.

VETIVERT.—Bourbon spot, 95s. to 105s. per lb.; shipment, 95s., c.i.f.

WINTERGREEN.—Natural, 35s. lb.

UNITED STATES REPORT

NEW YORK, JULY 17: New reductions in prices for GLYCERIN featured an otherwise quiet week. Brazilian MENTHOL declined five cents to \$4.75 a lb. SERPENTARIA ROOT advanced by 25 cents to \$7.75 a lb. Taiwan CITRONELLA OIL for resale was advanced to \$1.35 a lb., the seven cent rise reflecting higher offering rates at the source. The cost of native LEMONGRASS was lowered by 25 cents to \$3.75 a lb. nominally.

WILLS

MR. P. H. ATTWELL, M.P.S., the Pharmacy, High Street, Cranleigh, Surrey, left £7,484 (£7,431 net).

MR. W. S. BENJAMIN, M.P.S., 38 Canbury Court, Kingston-on-Thames, Surrey, left £964 (£860 net).

MR. T. BENTLEY, M.P.S., 57 Brompton Avenue, Rhos-on-Sea, Colwyn Bay, Denbighs, left £17,588 (£17,487 net).

MR. R. K. DIXON, M.P.S., 86 Coronation Drive, Crosby, Liverpool, 23, left £5,601 (£4,467 net).

MR. R. GRAHAM, F.P.S., 9 Gervis Crescent, Parkstone, Dorset, left £7,043 (£6,918 net).

MR. W. B. W. METCALFE, 24 Broxtowe Drive, Mansfield, Notts, who qualified as a chemist and druggist in 1905, left £4,987 (£4,939 net).

MR. A. E. MILLS, 30 Charlton Road, Keynsham, Bristol, who qualified as a chemist and druggist in 1912, left £12,615 (£12,350 net).

MR. A. MORTON, M.P.S., 108 High Street, Lees, nr. Oldham, Lancs, left £9,940 (£9,874 net).

MR. T. G. K. REES, M.P.S., The Pharmacy, Norton Road, Penygroes, Llanelli, Carmarthenshire, left £7,379 (£6,261 net).

MR. A. J. SCADDING, M.P.S., 29 Howard Road, Southampton, left £4,769 (£4,675 net).

MR. J. B. STORIE, M.P.S., 18 Devonshire Road, Hornchurch, Essex, left £61,862 (£53,288 net).

MR. D. K. WAITE, M.P.S., 13 Guy's Cliffe, Undercliffe Lane, Bradford, 3, left £2,851 (£1,512 net).

PRINT AND PUBLICITY

PUBLICATIONS

Catalogues

AGFA, LTD., 27 Regent Street, London, S.W.1: Catalogue 1962/63. Pp. 48.

JAYNOX, LTD., P.O. Box 8, King Street, Stoke-on-Trent, Staffs: Photographic catalogue 1962. Pp. 84.

Periodicals

KODAK, LTD., Kingsway, London, W.C.2: Dealer trade circular. July. Pp. 6.

NEVILLE BROWN & CO., LTD., 93 New Cavendish Street, London, W.1: *Nebro News*, No. 19. Pp. 8.

Booklets and Leaflets

AGFA, LTD., 27 Regent Street, London, S.W.1: "Agfacolor films for natural colour" — 8-p. booklet for counter distribution.

BRITISH TITAN PRODUCTS, LTD., 10 Stratton Street, London, W.1: "Tioxide moves ahead with new and improved grades" — 12-p. booklet (BTP/103) on titanium dioxide pigments.

CRODA, LTD., Cowick Hall, Snaith, Goole, Yorks: "Propylene glycol mono-stearate" — 6-p. technical data sheet.



"BABY CORNER" CARD: To meet many requests for a card to hang over baby corners and counters, Glaxo Laboratories, Ltd., Greenford, Middlesex, have produced the card illustrated. Orders should quote No. IID233.

LAPORTE TITANIUM, LTD., 1 New Bond Street, London, W.1: "Titanium dioxide by Laporte" — 8-p. booklet briefly describing its manufacture.

TOP RANK LABORATORIES, LTD., Cumberland Avenue, Park Royal, London, N.W.10: "Getting the best out of colour with Top Rank" — 6-p. booklet for counter distribution.

TRUFOOD, LTD., Medical department, 113 Newington Causeway, London, S.E.1: Leaflet discussing the protein content of Humanised Trufood.

Price List

IMPERIAL CHEMICAL INDUSTRIES, LTD., Pharmaceuticals division, Fulshaw Hall, Wilmslow, Cheshire: Trade price list, July.

DISPLAY MATERIAL

M. BEETHAM & SON, LTD., Priory Court, Cheltenham, Glos.: Costa-brava suntan cream. Counter/window display piece free with order for 2 dozen tubes.



STOCKED FOR DISPLAY: Combined display and stock cabinet available from E. R. Holloway Sales, Ltd., Bessemer Road, Welwyn Garden City, Herts, for Barnet combs.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, July 25

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY. Mere golf club, Ladies' day, Competition for Woolley trophy and prize.

Advance Information

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, At Manchester. Annual meeting, August 29 to September 5.

ROYAL INSTITUTE OF CHEMISTRY, and SOCIETY FOR ANALYTICAL CHEMISTRY, Manchester College of Science and Technology. Summer school in analytical chemistry. September 9-15.

UTRECHT TRADE FAIR, Vredenburg Building and Juliana Hall, Utrecht, Holland, September 10-18.

FACTORY EQUIPMENT EXHIBITION, Belle Vue, Manchester, September 19-28.

COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

July 29 to August 4

| | London | Midland | North | Scotland | Wales | South | N.E. | Anglia | Ulster | Westward | Border | Grampian | Eireann |
|---------------------------------|--------|---------|-------|----------|-------|-------|------|--------|--------|----------|--------|----------|---------|
| 4711 eau de Cologne | ... | ... | ... | ... | ... | ... | 1 | 1 | — | — | — | — | — |
| Airwick | ... | ... | ... | ... | ... | ... | 5 | — | — | — | — | — | — |
| Alka Seltzer | ... | ... | ... | ... | ... | ... | 3 | — | 6 | 4 | 4 | 5 | 3 |
| Anadin | ... | ... | ... | ... | ... | ... | 1 | 4 | 7 | 4 | 6 | 1 | 3 |
| Andrex | ... | ... | ... | ... | ... | ... | — | — | — | — | — | 15 | — |
| Anne French cleansing milk | ... | ... | ... | ... | ... | ... | — | — | 1 | — | — | — | — |
| Arrid | ... | ... | ... | ... | ... | ... | 1 | — | — | — | — | — | — |
| Askit powders | ... | ... | ... | ... | ... | ... | — | — | — | 14 | — | — | — |
| Aspro | ... | ... | ... | ... | ... | ... | — | — | — | — | — | — | 1 |
| Biskoids | ... | ... | ... | ... | ... | ... | 1 | 3 | 2 | 3 | — | — | — |
| Body Mist | ... | ... | ... | ... | ... | ... | 2 | 2 | 2 | 3 | 2 | 1 | — |
| Bristow's shampoos | ... | ... | ... | ... | ... | ... | 2 | 3 | 3 | 3 | — | — | — |
| Brylcreem | ... | ... | ... | ... | ... | ... | — | 1 | 3 | 2 | 3 | 4 | 3 |
| Carter's little liver pills | ... | ... | ... | ... | ... | ... | — | — | 2 | 4 | — | 2 | — |
| Cooper's aerosols | ... | ... | ... | ... | ... | ... | — | 2 | — | — | 2 | 1 | — |
| Cuticura | ... | ... | ... | ... | ... | ... | — | 2 | — | 2 | — | 1 | 3 |
| Daxaids | ... | ... | ... | ... | ... | ... | — | — | — | 3 | — | — | — |
| Delsey | ... | ... | ... | ... | ... | ... | — | — | 1 | — | — | — | 1 |
| Dentu-creme | ... | ... | ... | ... | ... | ... | — | — | — | — | 1 | — | — |
| Eno's Fruit Salt | ... | ... | ... | ... | ... | ... | 3 | 3 | 2 | 4 | 3 | 3 | 3 |
| Euthymol tooth-paste | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | 1 | 2 | — | — |
| Flit aerosols | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Freezone | ... | ... | ... | ... | ... | ... | — | — | 1 | — | 4 | — | — |
| Goddard's cream and embrocation | ... | ... | ... | ... | ... | ... | 1 | — | — | — | — | — | — |
| Hedex | ... | ... | ... | ... | ... | ... | — | — | — | 2 | 2 | — | — |
| Ilford photographic products | ... | ... | ... | ... | ... | ... | — | 5 | — | 4 | 4 | 7 | 6 |
| Immac | ... | ... | ... | ... | ... | ... | 2 | 1 | 2 | 1 | 3 | — | 1 |
| Izal | ... | ... | ... | ... | ... | ... | — | 3 | — | — | — | — | — |
| Johnson's first-aid cream | ... | ... | ... | ... | ... | ... | — | — | 3 | — | — | — | — |
| Kleenex | ... | ... | ... | ... | ... | ... | 1 | — | — | 1 | — | — | — |
| Lifeguard | ... | ... | ... | ... | ... | ... | — | — | — | — | 1 | — | — |
| Loxene hair cream | ... | ... | ... | ... | ... | ... | 2 | 2 | 2 | — | 2 | 1 | 4 |
| Maclean's tooth-paste | ... | ... | ... | ... | ... | ... | 3 | 3 | 2 | 4 | 2 | — | 3 |
| Milk of Magnesia | ... | ... | ... | ... | ... | ... | — | — | 2 | — | 1 | 1 | 1 |
| Mum roulette | ... | ... | ... | ... | ... | ... | 2 | — | 2 | — | 2 | 1 | 1 |
| Nair | ... | ... | ... | ... | ... | ... | — | — | — | 3 | — | — | — |
| Nuvis | ... | ... | ... | ... | ... | ... | — | 1 | 2 | 1 | 3 | 2 | 1 |
| Radox | ... | ... | ... | ... | ... | ... | — | — | — | — | — | — | 1 |
| Rennies | ... | ... | ... | ... | ... | ... | — | — | — | — | — | — | — |
| Roll Quick | ... | ... | ... | ... | ... | ... | — | — | 2 | — | — | — | — |
| Salvelox | ... | ... | ... | ... | ... | ... | — | 5 | — | — | — | — | — |
| Sebbix | ... | ... | ... | ... | ... | ... | 3 | 3 | 3 | 2 | 2 | — | — |
| Sek | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | — | — | — | — |
| Silvikrin shampoo | ... | ... | ... | ... | ... | ... | 3 | 3 | 3 | 3 | 1 | 4 | 3 |
| T.C.P. | ... | ... | ... | ... | ... | ... | 2 | 1 | 1 | 2 | 2 | 2 | 1 |
| Trugel | ... | ... | ... | ... | ... | ... | — | — | — | — | — | 1 | — |
| VO-5 conditioner | ... | ... | ... | ... | ... | ... | 2 | 2 | 2 | 1 | — | — | — |
| Get Set hair spray | ... | ... | ... | ... | ... | ... | 3 | 3 | 3 | 2 | — | — | — |
| Vosene | ... | ... | ... | ... | ... | ... | — | 1 | 1 | 1 | 2 | — | 1 |
| Wonderset | ... | ... | ... | ... | ... | ... | 5 | 5 | 4 | 7 | 6 | 4 | 3 |
| Zat | ... | ... | ... | ... | ... | ... | — | 4 | — | — | — | — | — |

WORLD TRADE

Argentine Chemical Imports.—Argentina imported from Britain in 1961 chemicals to the value of £3,700,000, against £3 millions in 1960.

Drug Factory for East Pakistan.—A pharmaceutical factory at Tongi, East Pakistan, has begun trial production of sulphonamide and antimalarial drugs. Initial production is being made available throughout Pakistan.

Brazil's Drug Industry.—The director, medical and pharmaceutical control department, Ministry of Health, Brazil, recently drew attention to the need for a powerful national chemical industry to render the pharmaceutical industry free from the need to import from the few large foreign firms which are "in a monopolistic position."

Dutch Chemical Trade.—According to the Netherlands Central Bureau of Statistics, Holland's exports of chemical products in the first quarter of 1962 totalled 390,400,000 guilders (£39,040,000) against 385,800,000 guilders (£38,580,000) in the corresponding period of 1961. Imports amounted respectively to 290 million guilders (£29 millions) and 299,200,000 guilders (£29,920,000).

Higher Levy on Re-exports.—The French Government has raised the levy on re-exported non-community goods processed in France to 45 per cent. (from 35 per cent.) of their customs duty value. The move was made in line with the European Economic Community's policy in the field of "temporary admission." The special temporary admission procedure allows the import of raw materials or basic products without any payment of customs duties if processed domestically and re-exported afterwards. In view of full Common Market integration, temporary admission procedure is being gradually removed by raising a special levy when goods that enter without payment of an import duty are re-exported in processed form to another Common Market country.

German Chemical Industry.—The German chemical industry is becoming increasingly concerned about rising costs and its ability to compete on international markets. "The increasingly keen competition, caused partly by the development of new and existing capacity in the Common Market countries, does not promise any letup in the pressures on prices in many sectors," says the German Chemical Industry Association in its latest news letter. "The international competitiveness of Germany's chemical industry is made even more difficult by rising labour costs, which last year far surpassed the increase in productivity. The industry is also worried by rising prices for capital goods, since it is impossible to slow down investment without being left behind by foreign competitors." West Germany's chemical exports in the first four months of 1962 rose 4.1 per cent. over a year ago, reaching DM2,260 millions. Turnover of the German chemical industry rose 3.3 per cent. to DM8,120 millions in the first four months of 1961.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 4

For bath oil and dusting powder, all being non-medicated toilet preparations, and perfumes, toilet colognes and toilet soap (3)

Device with words FLAIR YARDLEY, 831,928, by Yardley & Co., Ltd., London, E.15.

For non-medicated toilet preparations, soaps, perfumes, cosmetics, essential oils, dentifrices and hair lotions (3)

SWANDOWN COVER TINT, SWANDOWN SILVER DISC, SWANDOWN BRIGHT AND BEAUTIFUL, SWANDOWN PASSING HOUR, 830,109-112, SWANDOWN ALL DAY, SWANDOWN BEAUTY MAGIC, 830,114-15, SWANDOWN BRIGHT LIGHTS, 830,117, by Henry Tetlow Co., Ltd., London, W.10.

For chemical preparations for pharmaceutical purposes (5)

Device with letter and words B, BERK CHEMICALS, B815,107, by F. W. Berk & Co., Ltd., London, W.1.

For all goods (5)

NORGESIC, 819,888, by Vantorex, Ltd., Loughborough, Leicestershire, DURAMED-12, 821,381, by Gillette Co., Boston, Massachusetts, U.S.A. EGMOL, EGMOVIT, 828,099-100, by Iromedica, A.G., St. Gallen, Switzerland. ANUGESIC, 829,961, by Warner-Lambert Pharmaceutical Co., Morris Plains, New Jersey, U.S.A. ESTOMUL, 833,002, by Riker Laboratories, Inc., Northridge, California, U.S.A.

For pharmaceutical preparations for the treatment of obesity and similar conditions; dietetic preparations (pharmaceutical) and dietetic foods (5)

SLIMMITS, B823,874, by Leas Cliff Products, Ltd., Sandwich, Kent.

For pharmaceutical steroid preparations containing vitamins, for human use (5)

DIANAVIT, 824,992, by CIBA, Ltd., Basle, Switzerland.

For pharmaceutical preparations (5)

PYREBRON, 826,000, by Aziende Chimiche Riunite Angelini Francesco, Rome, Italy.

For soups in the form of powder, paste or liquids, being dietetic infants' and invalids' foods (5)

SOUP-ASLIM, 826,936, by Leas Cliff Products, Ltd., Sandwich, Kent.

For medical and surgical adhesive plasters, materials prepared for bandaging, and bandages (5)

HOLTOVENT, B827,351, by F. & H. Southern Agency, Ltd., London, S.E.5.

For infants' and invalids' foods in the form of cereal preparations, all for sale in the United Kingdom otherwise than for export, but not excluding goods for export to the Irish Republic (5)

Device with letters R O, 827,698, by J. & J. Colman, Ltd., Norwich.

For medicated beverages, and preparations for making such beverages (5)

SOLO, 828,197, by Solo Orchards, Ltd., London, N.W.1.

For pharmaceutical preparations for veterinary use (5)

SUPLEMIN, 828,572, by Imperial Chemical Industries, Ltd., London, S.W.1.

For pharmaceutical preparations for human use for the treatment of cardiovascular diseases (5)

ISORDIL, 829,610, by American Home Products Corporation, New York 17, U.S.A.

For veterinary preparations (5)

TRILL, 829,762, by Petfoods, Ltd., Melton Mowbray, Leicestershire.

For pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging, disinfectants and antiseptics (5)

OLIXAREN, 830,696, SAGAMON, 831,333, TELANGEN, 831,336, by J. R. Geigy, S.A., Basle, 16, Switzerland.

For insecticides (5)

UDISKIT, 832,224, by Cubitt & Goffs, Ltd., Westerfield, Ipswich, Suffolk.

For photographic projectors; lighting attachments for stereoscopic viewers; and parts (9) and for photographic albums and boxes for such albums (16)

VIEW-MASTER, B765,215-16, by Sawyer's Inc., Portland, Oregon, U.S.A.

For apparatus for viewing photographic transparencies (9)

BOOTS SUPER VIEWER, 824,352, by Boots Pure Drug Co., Ltd., Nottingham.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," July 11

Ophthalmic medicaments comprising phenanthridinium salts. Boots Pure Drug Co., Ltd., 904,797.

Pharmaceutical compositions, for oral administration, comprising 6a-fluoroprednisolone and 2 esters thereof. Upjohn Co., 904,378.

C-substituted piperazines and method. Wellcome Foundation, Ltd. (Burroughs Wellcome & Co. (U.S.A.), Inc.), 904,802.

Enzyme-producing organism and improved enzyme preparation and hydrolysis process. Corn Products Co., 904,423.

Production of nitrates. Fisons Fertilisers, Ltd., 904,860.

Preparations of organic lithium compound. Microcell, Ltd., 904,456.

1,9-dihydroxy-2,8-dimethyl-5-hydroxymethylnonane. Rohm & Haas Co., 904,464.

Purification of silicon halides. Merck & Co., Inc., 904,867.

Preparation of benzothiadiazine dioxides. Merck & Co., Inc., 904,336.

Composite vaccine for the immunisation of dogs and foxes against distemper and Hepatitis contagiosa canis. Behringwerke, A.G., 904,301.

Alkyl substituted heterocyclic compounds. Imperial Chemical Industries, 904,415.

Copolyamides of piperazinium adipate and hexamethylenediammonium adipate. Chemstrand Corporation, 904,870.

Forming pellets. Monsanto Chemicals, Ltd., 904,408.

Dicarbamates and process of preparing same. Laboratoires Cassenne, 904,410.

Isourea derivatives. Farbenfabriken Bayer, A.G., 904,706.

Process of purifying plasminogen. American Cyanamid Co., 904,478.

Diphenyl-disulphonates of thiamine and dithiamine. Taisho Pharmaceutical Co., Ltd., 904,678.

Process of the production of O-quinones. Farbenfabriken Bayer, A.G., 904,680.

Diazoamino compounds. Farbenfabriken Bayer, A.G., 904,396.

Manufacture of immunising vaccines. Columbia Carbon Co., 904,563.

Substituted hydrazines and process for their preparation. Warner-Lambert Pharmaceutical Co., 904,681.

Process for the production of 6-acylamino-penicillanic acids. Farbenfabriken Bayer, A.G., 904,576.

For liquid mixtures of alkyl carbamates. Berkeley Chemical Corporation, 904,483.

Process for the production of symmetrical dialkyl hydrazines. Farbenfabriken Bayer, A.G., 904,545.

Organophosphorus compounds. Armour & Co., 904,474.

Adhesive bandage. P. Schladermunt, W. H. Dennerlein and L. S. Simons, 904,632.

Hypodermic needle. R. S. Ross, 904,635.

Hollow needle for surgical or medical purposes. Manufacturing Process Laboratories, Inc., 904,291.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from August 29.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals

ANOVLAR as an oral contraceptive. *Brit. med. J.*, July 14.

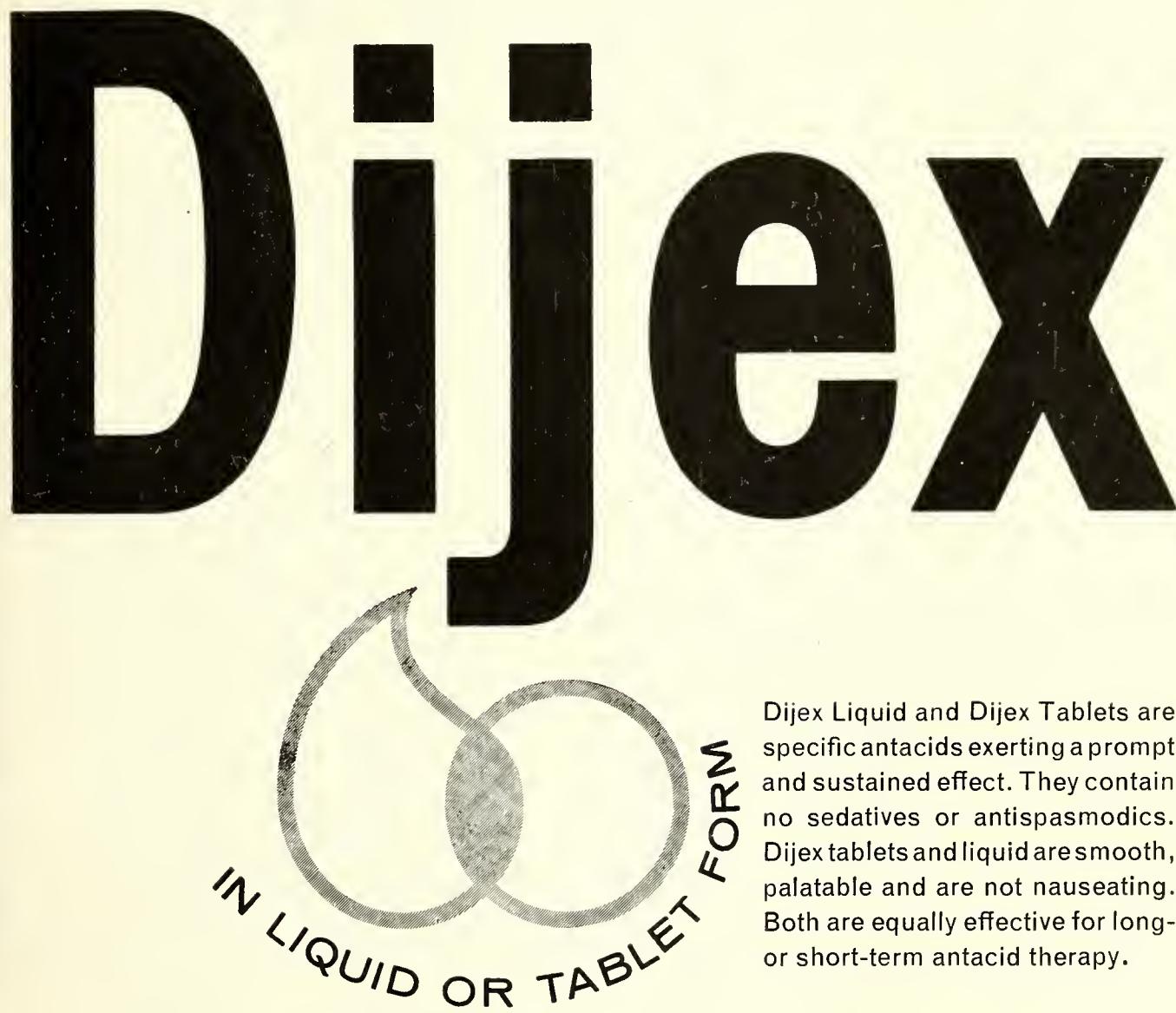
HUMAN IMMUNE GLOBULIN. Passive immunisation against tetanus with. *Brit. med. J.*, July 14.

HUMAN INFLUENZA VIRUSES in domesticated animals. *Brit. med. J.*, July 14.

PROMAZINE HYDROCHLORIDE. An assessment of, as a sedative in the dog. *Vet. Rec.*, July 14.

THIENIUM AND PIPERAZINE combined in the treatment of hookworm and roundworm infestation in the dog. *Vet. Rec.*, July 14.

**The NEW ANTACID
for optimum therapeutic effect
and maximum patient acceptability**



Dijex Liquid and Dijex Tablets are specific antacids exerting a prompt and sustained effect. They contain no sedatives or antispasmodics. Dijex tablets and liquid are smooth, palatable and are not nauseating. Both are equally effective for long- or short-term antacid therapy.

DIJEX LIQUID Magnesium hydroxide 1.6%, aluminium hydroxide gel 98%.
Bottles of 8 fl. oz. Trade price 18/4 per doz. (P. Tax extra at 25%).

DIJEX TABLETS Aluminium hydroxide-magnesium carbonate co-dried gel, 400 mg. in a dextrose and milk-solids base. 30 individually wrapped tablets.
Trade price 18/4 per doz. (P. Tax extra at 25%).

Dijex is being introduced to the medical profession.

**SUPPLIES ARE AVAILABLE FROM YOUR USUAL WHOLESALER
OR FROM WHOLESALE DIVISION, BOOTS PURE DRUG CO. LTD.,
STATION STREET, NOTTINGHAM (Tel: 56111)
and 71 FLEET STREET, LONDON, E.C.4 (Tel: FLEet Street 0111)**



up-up-up

goes **Color-Glo** trade mark *

advertising!

Stand by to make 1962 your biggest selling, most profitable year with Color-Glo



Every week MILLIONS of women will be convinced by the nation-wide COLOR-GLO advertising! Big spaces, full colour in all magazines, and black and white in the National press, appear in: ▶

It's the biggest advertising campaign ever launched for this successful, fast-selling product. Your customers can't miss it, and you can't miss making more sales, both new business and repeat! Get full benefit from this terrific advertising. Put COLOR-GLO where your customers can see it and make sure you've got ...

The 13 beautiful Color-Glo Shades

DEEP RICH CHESTNUT • WARM CHESTNUT
 BLACK TULIP • AUBURN • DEEP AUBURN • GOLDEN CHESTNUT
 MOLTEN GOLD • DOVE GREY • HONEY BROWN
 and the Color-Glo Sherry Shades
 DARK-BROWN SHERRY • BROWN SHERRY
 AMBER-BROWN SHERRY • LIGHT SHERRY

**WOMAN • WOMAN'S OWN
 WOMEN'S REALM • WOMAN & BEAUTY
 SHE • EVERYWOMAN • FLAIR
 VANITY FAIR • MODERN WOMAN
 WOMAN'S MIRROR • DAILY MIRROR
 and SUNDAY PICTORIAL**

Color-Glo
trade mark
 by L'OREAL

Semi-Permanent Hair Colouring

Price 23/- per dozen bottles, plus tax. Retail 3/9 per bottle

Manufactured and distributed by: **GOLDEN LIMITED** Berkeley Square House, Berkeley Square, London W1 Mayfair 8240
 Republic of Ireland enquiries to: *Lilmar Pharmaceuticals Limited, Santry, Dublin*



MAKING FOR THE BEST

This new attractive advertisement, featuring not only our Full Cream Milk Food and Cereal Food, but also our latest range of Dairy Weaning Foods, is appearing in the magazine press in full colour during the next few months and will also appear in the National Medical and Nursing Press during the same period, in black and white.

Our eye-catching advertisements are constantly stimulating new sales which mean new customers for you. Order now and be sure you can supply the increasing demand for Cow & Gate—the choice of millions of mothers.

Please address your enquiries for attractive, full colour display material, and in the case of our Weaning Foods, the self-service display stand holding one dozen tins to:—

Cow & Gate Ltd · (Dept. CD) · GUILDFORD · SURREY

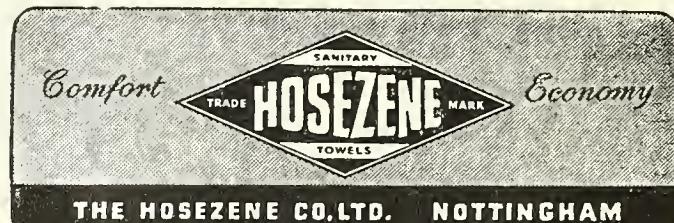


Carter's ANTI-SMOKING TABLETS

I week's course
7/6d

contain LOBELINE and VITAMINS B1, B2 & B6.

CARTER BROS - GLEN LABORATORIES - SHIPLEY (Yks)



Attract more Customers—
by stocking

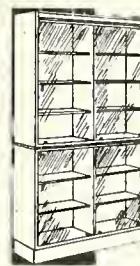
TIDMAN'S
BATH
SEA SALT

Wholesale prices: 10/-, 21/- and 36/- per dozen. Purchase Tax: 2/6, 5/3 and 9/- per dozen. Retailing at 1/4, 2/9 and 4/9 per packet.

ORDER SOME NOW!

TIDMAN & SON LTD.
91 OLD CHURCH ROAD, CHINGFORD, LONDON, E.4.

FWS



MAUND & BERG

For Pharmacy Fittings,
Complete Installations,
or Individual Items...

175-9 OLD STREET • LONDON E.C.1
Tel: CLErkenwell 1782

TRADE MARK **'VERLOG'** SURGICAL
ELASTIC HOSIERY

Registered Brands: VERLOSHEER, VERLOFABRIK, VERLONET.
All qualities approved under N.H.S.

BELTS, TRUSSES, SUSPENSORY BANDAGES, ETC.
THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM

Tel.: 248227 (2 lines). 'Grams: Verlog, Nottingham

ESTABLISHED 1793

ATKINSON & BARKERS
INFANTS' PRESERVATIVE

The Infants' Medicine
of 150 years' standing

For teething and digestive troubles

ROBERT BARKER & SON LTD
13 ALISTAIR STREET, MANCHESTER, 1

Nicobrevin
The Original
ANTI-SMOKING CAPSULES
MILLER OF GOLDEN SQUARE LTD.

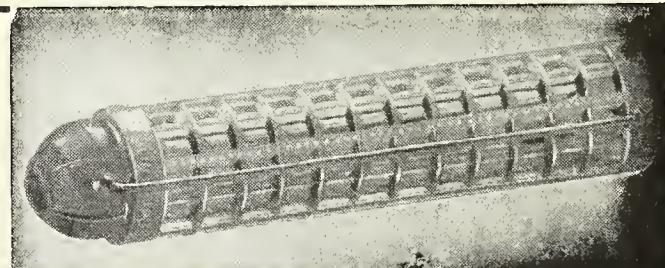
NEW!! PATRICIAN
ROLDKINS
AMERICA'S **NON RUBBER**
CONTRACEPTIVE SHEATH (Moist Packs)
Agents required for Europe
B. McCOURT, 144 St. John St., London, E.C.1

The FAMOUS
HAIR ROLLERS
"FABULO" Brand (regd.)

the world's best and cheapest (unbreakable) are available in
7 different sizes and counts
to suit every possible hair style
(4 to 5 sizes are required for certain hair styles)

Uniformed RETAIL PRICE of
2/4 per packet
and costing to the Chemist 18/8 per doz. packets inc. P.T.

POPULARITY AND QUALITY
SECURE LARGE TURNOVER



Supplies and Metal Display Stands from the wholesale trade or
direct from

HAETAM LIMITED
63 CORPORATION STREET, MANCHESTER, 4
Established 1921
Phone BLA 3882

INDEX TO ADVERTISERS

| | | | |
|--|-------------------------|--------------------------------------|-------------------------|
| Allen, Stafford & Sons, Ltd. | Front Cover | 4 | |
| André Philippe, Ltd. | 7 | 36 | |
| Ashwood Timber Industries, Ltd. | 37 | 2 | |
| Barker, Robert, & Son, Ltd. | 4 | 10 | |
| Barnett & Foster, Ltd. | 32 | 28 | |
| Bell, John, Hills & Lucas, Ltd. | 8 | 4 | |
| Bell, John, Hills & Lucas, Ltd. | Price List Sup., Page 3 | 5 | |
| Blythe, William, & Co., Ltd. | 36 | 4 | |
| Boots Pure Drug Co., Ltd. | 1 | 27 | |
| Box, W. H. | 37 | 37 | |
| Bradley & Bliss, Ltd. | 17 | Lilly, Eli, & Co., Ltd. | Interleaved Edit., 24 |
| British Felsol Co., Ltd. | Cover iv | 4 | |
| Brown, N. C., Ltd. | 6 | McCourt, B. | 4 |
| Brown, Neville & Co., Ltd. | 18 | Maund & Berg, Ltd. | 4 |
| Bulman (Store Equipment), Ltd. | 9 | Meggeson & Co., Ltd. | Price List Sup., Page 2 |
| Burgoyne Burbidges & Co., Ltd. | 32 | Nicholas Products, Ltd. | 14, 15 |
| Burrough, James, Ltd. | 4 | Peboc, Ltd. | 28 |
| Burroughs Wellcome & Co. | Price List Sup., Page 1 | Philips Electrical, Ltd. | Centre Spread, 22, 23 |
| Burroughs Wellcome & Co. | Interleaved Edit., 73 | Ransom, William, & Son, Ltd. | Cover iii |
| Bush, W. J., & Co., Ltd. | 26 | Reckitt & Sons, Ltd. | 35 |
| Cannon Rubber Manufacturers, Ltd. | 16 | Remploy, Ltd. | 34 |
| Carter Brothers | 4 | Robinson & Sons, Ltd. | 25 |
| Cow & Gate, Ltd. | 3 | Rochdale Metal Products, Ltd. | 28 |
| Cox, Arthur H., & Co., Ltd. | 8 | Silber, J. J., Ltd. | 33 |
| Cresswell Bros. (Sponges) | 32 | Smith & Nephew, Ltd. | 12, 13 |
| Cuxson, Gerrard & Co., Ltd. | 29 | Surdent Manufacturing Co., Ltd. | 7 |
| Daily Mail | Interleaved Edit., 21 | Tidman & Sons, Ltd. | 4 |
| Daniel, Richard, & Son, Ltd. | 26 | Unichem, Ltd. | Cover ii |
| Dixor, Ltd. | 36 | West Pharmaceutical Co., Ltd. | Price List Sup., Page 9 |
| Douek, E. M., Ltd. | 19 | Wood Bastow (Elastics), Ltd. | 31 |
| Evans Medical, Ltd. | Interleaved Edit., 74 | | |
| Fibrelyle, Ltd. | 25 | | |
| Frankfurt International Autumn Fair | 11 | | |
| Gerhardt-Penick, Ltd. | 6 | | |
| Gevaert, Ltd. | 30 | | |
| Glaxo Laboratories, Ltd. | 20 | | |

**ON
WHEELS
TO YOU
the House of HAYWOOD**

offers a truly comprehensive service

... for over 130 years we have been leading suppliers of the needs of Retail Pharmacy. Our facilities are at your command . . .

DAYTIME ORDERS (Phone 51911, 12 lines) delivered A.M. and P.M. each day.

NIGHT RECORDED ORDERS (Auto Tele 52345/6/7) for delivery early next morning.

ETHICALS
DRUGS
D.D.A. GALENICALS
PACKED GOODS
PATENT MEDICINES
SUNDRIES
SURGICAL
PHOTOGRAPHIC
Etc. Etc.

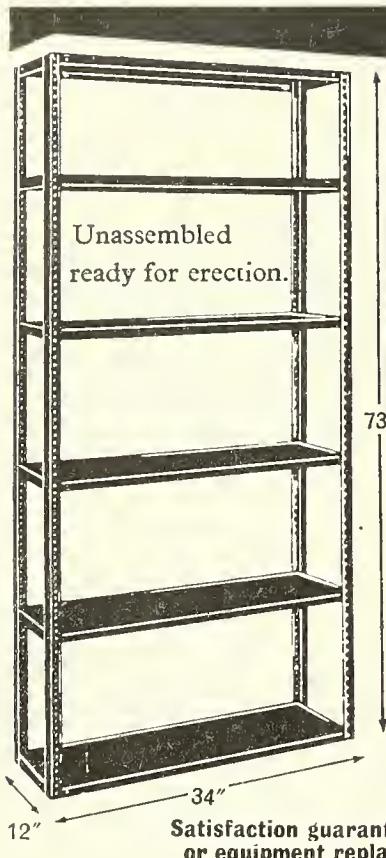
J. H. HAYWOOD LTD

WARSER GATE

NOTTINGHAM

Just lift up the phone :

DAY 51911 (12 lines)
NIGHT 52345/6/7 (Auto Tele)



Today's best value in heavy gauge STEEL SHELVING

£3·15·0 DELIVERED FREE ON THE
MAINLAND OF ENGLAND,
SCOTLAND & WALES.

- Brand new—Manufactured in our works.
- Shelves adjustable every inch.
- Heavy gauge shelves will carry 400 lb. distributed weight each.
- Stove enamelled dark green.
- 6 shelves per bay—Extra shelves 8/- each.
- Quantity discount on orders for six bays or more.

Also available in white at £5.15.0.

Extra shelves in white 11/6 each

SEND FOR CATALOGUE OF OTHER STORAGE EQUIPMENT

N. C. BROWN LTD

Shelving Division : Heywood, Lancs. Tel. : 69018

London Office : 25 Newton Street, Kingsway, W.C.2. Tel. : HOLborn 7931

North Lancs. Depot: Beach House, Hambleton, Near Blackpool. Tel. : Hambleton 411

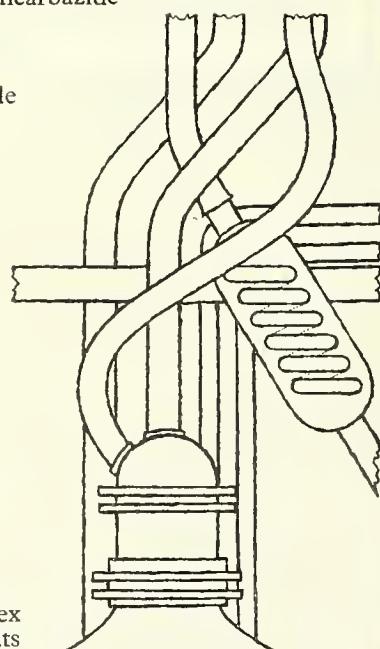
Isle of Man Depot: 4 Mona Street, Ramsey. Tel. : 2424

GERHARDT

SPECIALIST SUPPLIERS TO THE PHARMACEUTICAL INDUSTRY

Fine Chemicals

Acid *p*-Amino Benzoic
Adrenochrome Monosemicarbazide
Aminophyllin
Amylocaine Hydrochlor
Bacitracin
Benzamine Hydrochloride
Benzamine Lactate
Benzocaine
Caffeine
Calcium Iodide
Emetine
Ephedrine
Ext. Ipecac. Liq.
Iodine
Lachesine
Lobeline Hydrochloride
Lobeline Sulphate
Masking Agent 1720
Neomycin
Phthalamaquin
Piperazine Salts
Potass. Iodide
Potass. Iodide Stearate
Quinine
Rutin
Theobromine & Salts
Theophylline & Complex Salts
Totaquina
Warfarin



Botanical Drugs



Ipecacuanha Plant

Cascara Sagrada
Cocillana Bark
Ipecacuanha
Lobelia
Opium
Papain
Podophyllum Peltatum
Quillaya Bark
Slippery Elm Bark
White Pine Bark
Wild Cherry Bark
Witch Hazel Leaves
Witch Hazel Bark

- Modern manufacturing techniques
- Highly qualified supervision
- Research and development facilities
- Confidential custom manufacturing

GERHARDT-PENICK LTD · Thornton Laboratories · Purley Way · Croydon · Surrey

André Philippe
LEAD ON!

ANOTHER BEST SELLER!

EAU-DE-COLOGNE and LAVENDER WATER

Elegantly packed and attractively designed
10 oz., Swan Neck toilet bottle. An excellent
line in constant demand.

No. 24. 17/3 per dozen plus 45% P.T.
Retails 2/10

Supplies obtainable direct or through usual wholesalers

ANDRÉ PHILIPPE LIMITED

71-71B GOWAN AVENUE · FULHAM · LONDON · SW6
Telephone: RENown 2194-2397

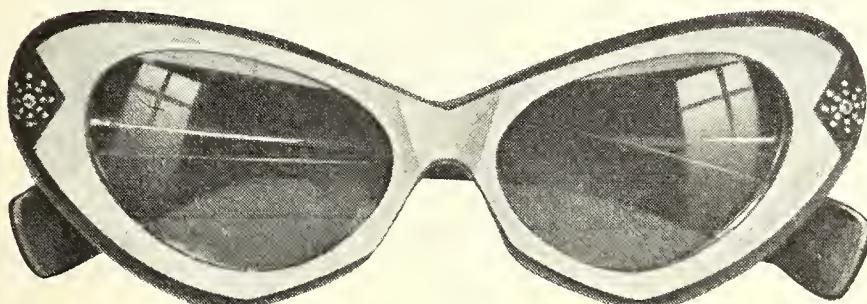
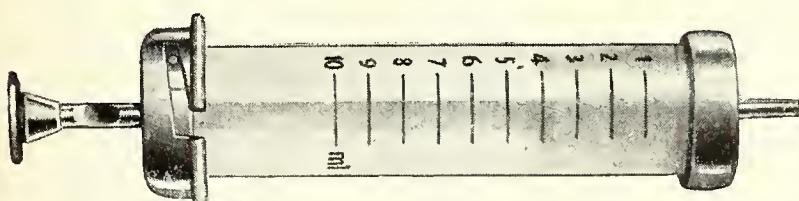
We shall be pleased to send you a complete price list on request



SURDENT MANUFACTURING CO. LTD.

784-788 HIGH ROAD, LONDON, N.17

Telephone: TOT 4627/8 · Cables: Surdent, London, N.17



Registered



Trade Mark

Sole Importers of
“EVA” ALL-GLASS
SYRINGES

•
RECORD
HALF RECORD
ALL-GLASS
VETERINARY
DENTAL and
SPECIAL SYRINGES

•
also HYPODERMIC
VETERINARY
SPECIAL
NEEDLES
•
SUNGASSES

WHOLESALE PRICE LIST AVAILABLE — EXPORT ENQUIRIES WELCOMED

announcing

CARALAX

a caramel flavoured laxative

For persons of all ages
Safe, gentle and most pleasant in every way

2½ oz. bottles, cartoned, with leaflet
Attractive counter display card

| | | |
|-----------------------|---------------|-----------------------|
| Trade Prices : 1 doz. | 16/- | } plus 25% P.T. |
| 3 doz. @ | 15/- per doz. | |
| 12 doz. @ | 14/6 per doz. | |

Retail selling price 2/6 per bottle

We shall be pleased to send you a sample bottle and further particulars if you will kindly advise us.

ARTHUR H. COX & CO. LTD • BRIGHTON • ENGLAND

WOPSEY

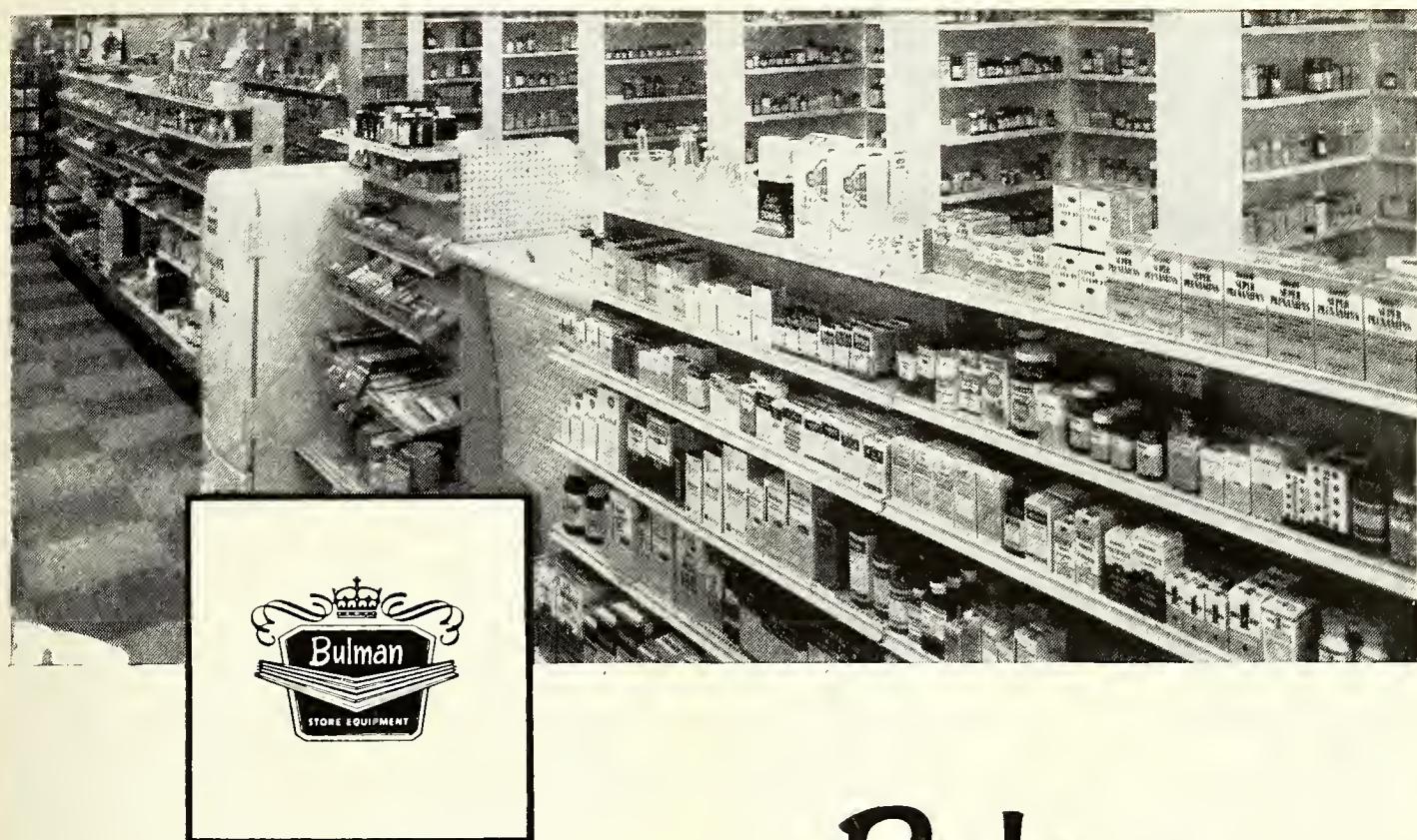
KILLS
WASPS
IN THE NEST!

SO MUCH
SAFER THAN
CYANIDE

Soon the victims of this season's wasp invasion will be storming your shop, looking for something to repulse the black and yellow peril. The defence weapon to recommend is WOPSEY, the highly effective wasp killing liquid—conveniently capsuled.

Retail price: 2/3d. Trade price: 16/- per doz. Bonus terms: 14 to the dozen on single dozens.

JOHN BELL, HILLS & LUCAS LTD., Oxford Works, Worsley Bridge Road, London, S.E.26.



THE MAN FROM **Bulman**
HAS ARRIVED IN BRITAIN

bringing a new concept in store planning and equipment

Bulman offers Britain's retailers a new and unique service—complete store planning and layout with the finest equipment available—combining North American know-how with British workmanship and materials. Bulman know the business. In North America they have equipped more stores than all their competitors combined. Bulman store engineers can help you to display more—and sell more, with equipment expressly designed for chemists shops. Bulman fixtures invest your goods with increased sales appeal and help you to get full benefit from your in-store traffic.

Contact the "Man from Bulman" today; he will help you to plan your way to greater profits with Bulman equipment.



Bulman (STORE EQUIPMENT) LIMITED

Store Planning Engineers

111 PROMENADE CHELTENHAM GLOUCESTERSHIRE Phone: Cheltenham 52649



Popular L'Oréal Bleach  and new formula Tress both get exciting modern packs plus nationwide advertising designed to shift stocks off your shelves faster, push your profits higher . . .

From June 1962 to April 1963, L'Oréal Bleach takes regular spaces in the big circulation newspapers—Sunday Pictorial and Daily Mirror, as well as Woman, Woman's Mirror and Honey. Your customers will want to see L'Oréal Bleach in your shop, and when they do they'll be sold on the gay good looks of the new quality pack.

From June 1962 to March 1963, millions of readers of Woman, Woman's Own, Woman's Realm, Woman's Mirror, Daily Mirror and Sunday

Express will all be told over and over again about the important difference in Tress—a new French formula which gives hair the fullness that's needed for modern styles. Women will be persuaded to try New Tress and see how it really does make sets last twice as long and condition hair to shining beauty.

* Gaily packed L'Oréal Bleach and New Tress deserve a good place on your shelves—stock up now and see how soon they leave you with profits that jump up and up!

**NEW PRICES
L'ORÉAL BLEACH**

Retail Price 3/- per carton
Trade Price 18/5 per dozen cartons plus tax

NEW TRESS

| | |
|---|-------------------------------------|
| <i>Small Size</i> | Retail Price 1/10 per bottle |
| <i>Trade Price 10/9 per dozen bottles</i> | <i>plus tax</i> |
| <i>Large Size</i> | <i>plus tax</i> |
| Retail Price 3/- per bottle | |
| Trade Price 18/5 per dozen bottles | <i>plus tax</i> |

FRANKFURT
INTERNATIONAL
FAIR



SEPTEMBER 2-6
1962

Lep

Official Agents for the United Kingdom & Eire

LEP TRANSPORT LTD

Sunlight Wharf, Upper Thames Street, London, E.C.4

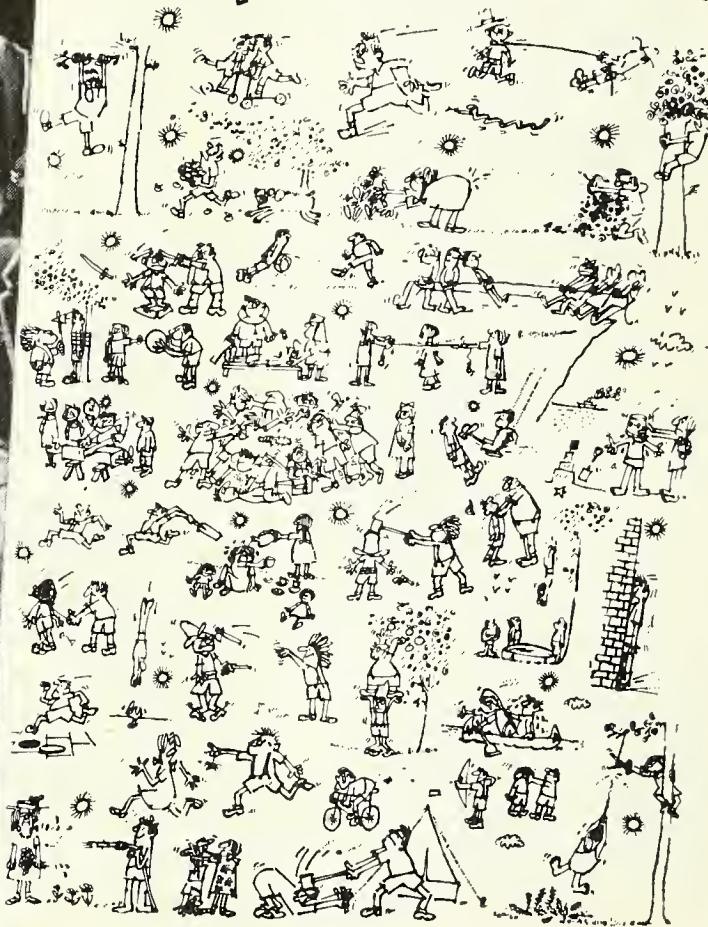
Telephone : CENtral 5050 (30 lines)

Telegrams : Depolep, London, Telex 28382

13 MILLION READERS W



-FUN & GAMES START!

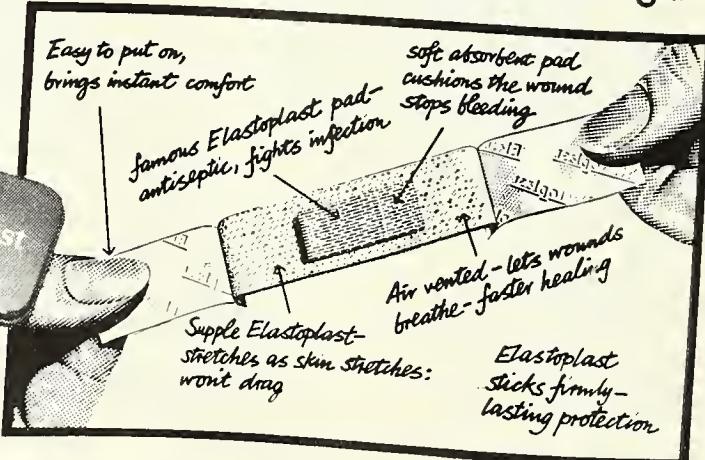


You need Elastoplast to mend the cuts and blisters and grazes, to hush the sobs and dry the tears, and start their play all over again

This is the season of grazed knees, barked knuckles, blistered heels, cut fingers, and all the other little scrapes and scratches that children come running to mother with. That's why you need Elastoplast now. Just see (on the right) how Elastoplast has everything for making hurt places feel better. Wonderful Elastoplast! You need some today.

Make up your mind right now—go and get some Elastoplast today. It's important that you do.

Elastoplast



SEE THIS WHOLE PAGE ADVERTISEMENT APPEARING 25th JULY IN THE DAILY EXPRESS

one
of the
big guns
in the powerful Elastoplast campaign
for Summer Holiday period!



Elastoplast's massive campaign reminds mothers everywhere that this is the season of cuts and scratches. With the children home and outdoor activities at their peak, holiday-time is likely to be 'Elastoplast time'. And every mother knows it! So get ready for a big leap in sales of Elastoplast. Get it on display—and check your stocks now.

Elastoplast



THERE'S NO HOLDING NICHOLAS PRODUCTS



You just don't hold stocks of Nicholas Products. They're the lines that move fast—*faster—fastest!* They do so because they are consistent top quality, produced under rigid control in one of the world's most modern factories. They do so because each and everyone is designed to meet a known big demand *better*. They do so because they're strongly supported with National Advertising—skilfully planned and boldly placed. Remember, too, Nicholas Products yield *top profits* and *better margins*. You don't hold them. Put them where they'll be seen and they'll be sold. *Sold soon. Sold profitably.*

PHARMACEUTICALS

*ASPRO · *RENNIES · *KWELLS
USCHEN · BRONCHIPAX · HEMOTABS

HOUSEHOLD LINES

LIFEGUARD · *DIP · WAFT

TOILETRIES

*RADOX · LEMSKIN · TRU-GEL
SWAN LAKE · SHAVEX

*These are brand leaders in their fields.

NICHOLAS PRODUCTS FOR NATIONAL ADVERTISING

Nicholas Products are advertised to your customers with tested and proven appeals on a national basis. The concentrated weight of full scale TV and Press campaigns is behind many Nicholas Products. The Right Messages about them are delivered at the Right Times in the Right Media.

Put Nicholas Products where they can be seen and they will be recognised as fulfilling a need.

NICHOLAS PRODUCTS FOR NEWS

Your Nicholas Products' representative will bring you news of new Nicholas Products, new advertising and promotion plans, new point-of-sale aids, display bonuses, stock bonuses. Please see him every time he calls; he will *never* waste your time.

NICHOLAS PRODUCTS LTD

225 BATH ROAD, SLOUGH, BUCKS.

Tel: Slough 23971





CANNON TEATS

nearest
to
natural
feeding



THIS IS WHY

- Triple perforation for even, air-free flow
- Spiral reinforcement prevents softening or collapse
- Fewer new ones to break in because Cannon teats last longer
- ORDER NOW TO ENSURE YOUR SHARE OF THE GROWING MARKET

FOR
**CANNON
TEATS**

THE CANNON RUBBER MANUFACTURERS LTD
ASHLEY ROAD • TOTTENHAM • LONDON N.17

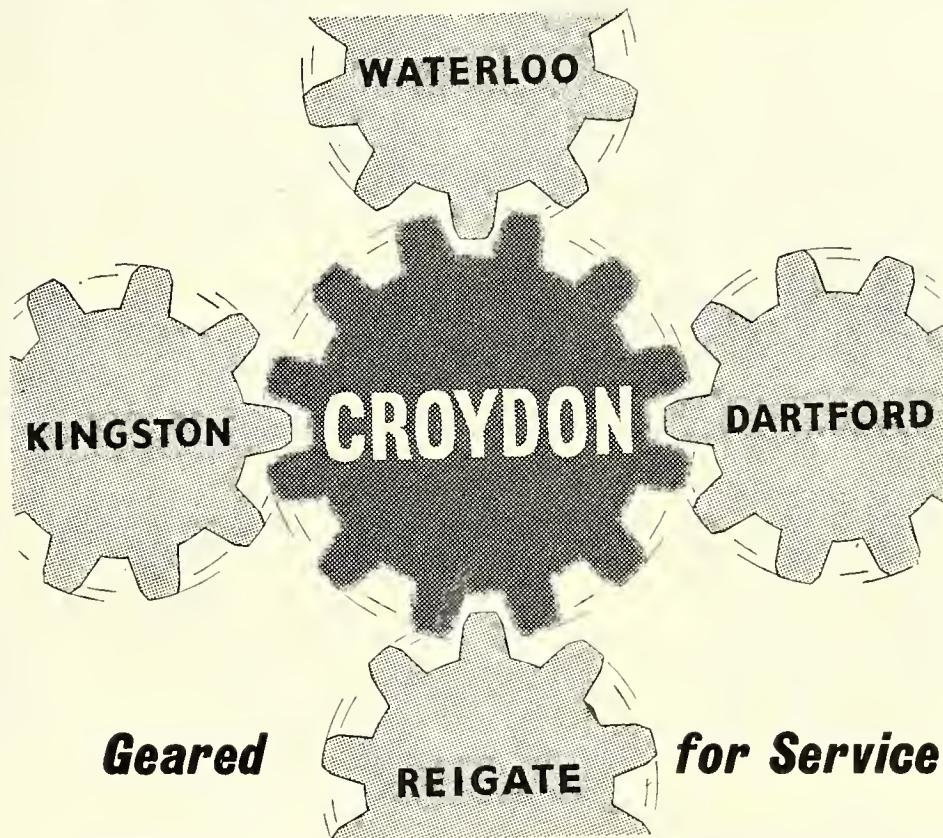
7½¹/₂
retail

To all South London Retail Pharmacists —

All your Wholesale requirements are available when you telephone

MUNicipal 2500 (24 hour telephone service)

Ethical
Specialties
Drugs
Galenicals
Proprietaries
Tablets
Dressings
Surgical
Equipment
Photographic
Supplies
Dangerous
Drugs



A complete service for the retail pharmacist is available to you from our premises at :

WADDON MARSH WAY, CROYDON

A PERSONAL SERVICE FOR CHEMISTS BY CHEMISTS

BRADLEY & BLISS LTD.

Head Office, KING'S ROAD, READING (Telephone: Reading 55861)
also at RAMSGATE ROAD, SANDWICH (Telephone: Sandwich 3335)
WEST HILL RD., ST. LEONARDS-ON-SEA (Tel: Hastings 6602)

BE
BE

YEARS

AHEAD

WITH

ALDIS

THE WORLD'S FINEST
COLOUR SLIDE PROJECTORS

Distributed by

NEVILLE BROWN & CO., LTD., LONDON, W.I.

Telephone: LANGham 7161

ALDIS XT 150

Automatic magazine projector with finger-tip operation of slide-changing lever and back spacer. Magazine takes 30 2" x 2" or Super slides. 8.5 cm. f/2.5 lens, 150 w. illumination. Polystyrene carry-cover, and one magazine.

£16 19 6

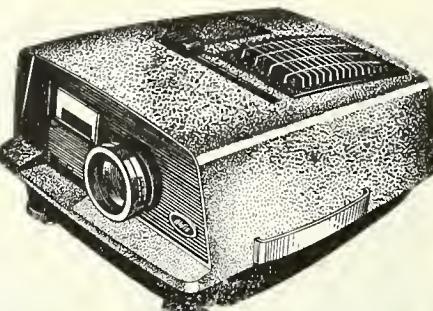
150 w. lamp (extra) £1 10 0
Spare magazines 10/- each

ALDIS XT 434

Similar to XT 150, but with 300 w. illumination and efficient new "two-way" cooling system. Magazine takes 3 sizes of transparency—35 mm., 4 x 4 and 3 x 4 cm. Complete with polystyrene carry-cover and one magazine.

£23 18 6

300 w. lamp (extra) £1 17 6
Spare magazines 10/- each



ALDIS XT 330

Fully automatic magazine projector, remote controls for focusing and slide changing. Magazine takes 30 2" x 2" or Super slides. 8.5 cm. f/2.5 lens, 300 w. illumination. Complete with carry-cover and one magazine. £38 17 6

300 w. lamp (extra) £1 17 6
Spare magazines 10/- each

ALDIS XT 360

As XT 330 plus automatic self-timer; rheostat switch to reduce initial voltage to the lamp; socket for tape recorder.



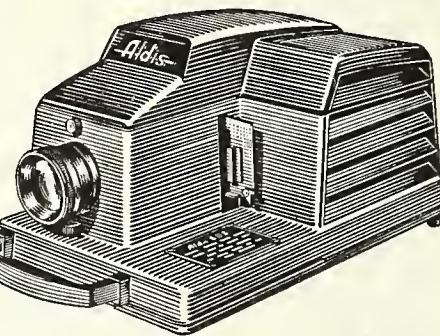
£54 17 6 300 w. lamp (extra) £1 17 6
Spare magazines 10/- each

ALDIS 303

300 w. suction-cooled projector with 8.5 cm. f/2.5 lens and Aldaspheric optical system. Complete with protective cover.

£21 0 0

300 w. lamp (extra) £1 17 6



ALDIS 505

500 w. suction-cooled projector with 8.5 cm. f/2.5 lens and Aldaspheric optical system. Complete with protective cover.

£24 18 6

500 w. lamp (extra) £2 15 0

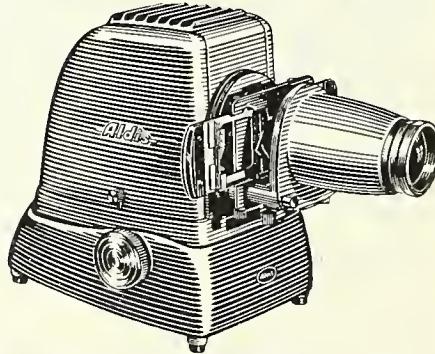
ALDIS 300

300 w. projector with great screen brilliance and picture detail. Complete with 8.5 cm. f/2.5 Aldis anastigmat lens and 2" x 2" slide carrier.

£17 18 6

With 10 cm. f/2.8 lens £19 18 0

300 w. lamp (extra) £1 14 3



ALDIS 500

Blower-cooled 500 w. projector, complete with 8.5 cm. f/2.5 anastigmat lens and 2" x 2" slide carrier.

£22 2 6

With 10 cm. f/2.8 lens £24 2 0

500 w. lamp (extra) £2 6 0

ALDIS 5-STAR 1000

Blower-cooled 1,000 w. projector, complete with 10 cm. f/2.8 anastigmat lens and 2" x 2" slide carrier.

£29 18 6

With 15 cm. lens £34 2 6

750 w. lamp (extra) £2 13 0

1,000 w. lamp (extra) £3 2 0

NEVILLE BROWN

NEVILLE BROWN & CO., LTD., LONDON, W.I.

Telephone: LANGham 7161

DAILY MAIL

inaugurate a completely new
idea in merchandising!

COUNTY LABORATORIES

present shopping-expert
SARAH MARTIN regularly
throughout the summer

County Laboratories, makers of Brylcreem, Macleans Tooth Paste, Silvikrin, Bristow's, etc., are boosting a series of special offers this summer with a concentrated advertising campaign in the Daily Mail.

The campaign, a unique approach to merchandising, will have an audience of well over $7\frac{1}{2}$ million *Daily Mail* readers week after week throughout the summer. Regularly, money-saving offers will be announced in a special column, featuring shopping-expert Sarah Martin, who will tell readers all about these bargains and where they can be bought.

So make sure you keep up your stocks and counter displays of these special offers from County Laboratories and be ready for a host of new customers shopping for these special bargains.

**DISPLAY & STOCK
'SARAH MARTIN'
BARGAINS**

Quicker Sales—Bigger Profits

STREAK AHEAD
TO EVEN BIGGER SHAVER SALES



WITH THE NEW
PHILIPS PHILISHAVE
superjet

PUBLIC RELEASE
AUGUST 15th

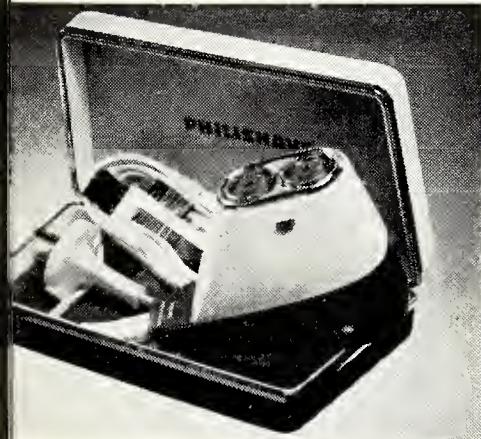
- SUPERBLY CLOSE COMFORTABLE SHAVING—with 'Philishave' Rotary Action.
- NEW MODERN DESIGN—sleek, contemporary, masculine.
- WORLD-WIDE ADAPTABILITY—AC/DC 100—130 and 200—250 with push-button voltage changing.
- DETACHABLE LEAD—plus unbreakable plug.
- BEAUTIFULLY STYLED TRAVELLING CASE—flat for easy packing.
- FLIP-TOP BUTTON—for instant cleaning.
- SENSATIONAL VALUE AT £6 · 6 · 0

PHILISHAVE *superjet* from



SPECIAL TRADE OFFER

**10'-CREDIT OFFER GUARANTEES
PROFIT MARGIN ON
STANDARD-VOLT PHILISHAVE**



Philips Standard-volt 'Philishave' will be reduced on Aug. 15th from £5.17.6d. to the even more saleable figure of only £5.5.0. So Philips offer you in compensation ten shillings for every Standard-volt model stocked but not yet sold—*provided* that you order an equal number of the new 'Philishave' Superjet models. This way your profit margin is fully guaranteed. Ask your Philips representative for details—and take full advantage of the offer while it lasts.

PERIOD OF OFFER: JULY 2nd – AUG. 10th

PHILIPS

— the friend of the family



the *Lilly* medical representative
is now discussing with your doctors
'DOLOXENE COMPOUND-65'

Trade Mark

Brand

DEXTROPROPoxyPHENE AND ACETYLSALICYLIC ACID COMPOUND

Prescription item which provides safe, rapid analgesia for conditions involving acute, chronic or recurrent pain.

He will also be talking about 'DOLOXENE' 65 mg.

Availability

'DOLOXENE COMPOUND-65' 'Pulvules' in bottles of 20, 100 & 500

'DOLOXENE' 65 mg. . . . 'Pulvules' in bottles of 20, 100 & 500

Trade Prices

| | 20 | 100 | 500 |
|------------------------|---------|----------|-----------|
| 'DOLOXENE COMPOUND-65' | 5s. 8d. | 22s. 8d. | 102s. Od. |
| 'DOLOXENE' 65 mg. | 5s. Od. | 20s. Od. | 90s. Od. |

(All these prices are subject to Purchase Tax)

Both products are readily available from your usual Lilly Wholesaler

ELI LILLY AND COMPANY LIMITED · BASINGSTOKE · ENGLAND



'SKYLON'

polythene Feeding Bottles

Obtainable from your usual wholesaler



Now supplied
in this attractive
two colour
printed pack.
Transparent
windows keep
the contents clean
yet visible.

Sterilizing instruc-
tions included
with each bottle.



LOOK....
the ORIGINAL
Polythene Feeder

RETAIL
PRICE
1'8
each

ELGAR 6006

Manufactured by

FIBRENYLE LTD

ESKYLON HOUSE • PARK ROYAL ROAD, LONDON • N.W.10

1ACW/L/1



Nothing stops a
NIKINI GIRL
and nothing stops
Nikini sales!

The sales graph climbs up and up as more and more women discover Nikini. National advertising in mass circulation women's magazines tells millions of women about the advantages of Nikini, the revolutionary sanitary protection that's already *proved* itself the most comfortable, the most efficient, the most reliable ever. Selling price of NIKINI GARMENT is 6/11. NIKINI PADS ONLY 1/6 per packet of 12.

Be sure of your share in the Nikini success story—make sure of the free display materials available.

Special Discounts: When ordering NIKINI PADS you may also include MENE TOWELS and PADDI-pads to qualify for quantity discounts. Ask for details now!

ROBINSON & SONS LTD • Wheat Bridge Mills • Chesterfield

IF YOU ARE LOOKING FOR A TABLET MANUFACTURER TO HANDLE YOUR PRODUCT
BE IT LARGE OR SMALL, IN THOUSANDS OR MILLIONS, WHY NOT

CONTACT ONE OF THE FOREMOST MAKERS WHO HAVE TAKEN PRIDE IN

MANUFACTURING TABLETS & PILLS FOR MANY YEARS

RICHARD DANIEL & SON, LTD. DERBY

Write us at Mansfield Road or ring Derby 40671 (Ten lines)

Branch Warehouse: Grosvenor Street, Ashton-u-Lyne. Tel: 5161 (9 lines) and North Wingfield Road, Grassmoor Tel: Holmewood 481 (5 lines)

BUSH

ASPIRIN B.P.

"Free-Flo" Granular, Needle Crystals and Powder

SALICYLAMIDE

PARACETAMOL

SODIUM SALICYLATE B.P.

Flake and Powder

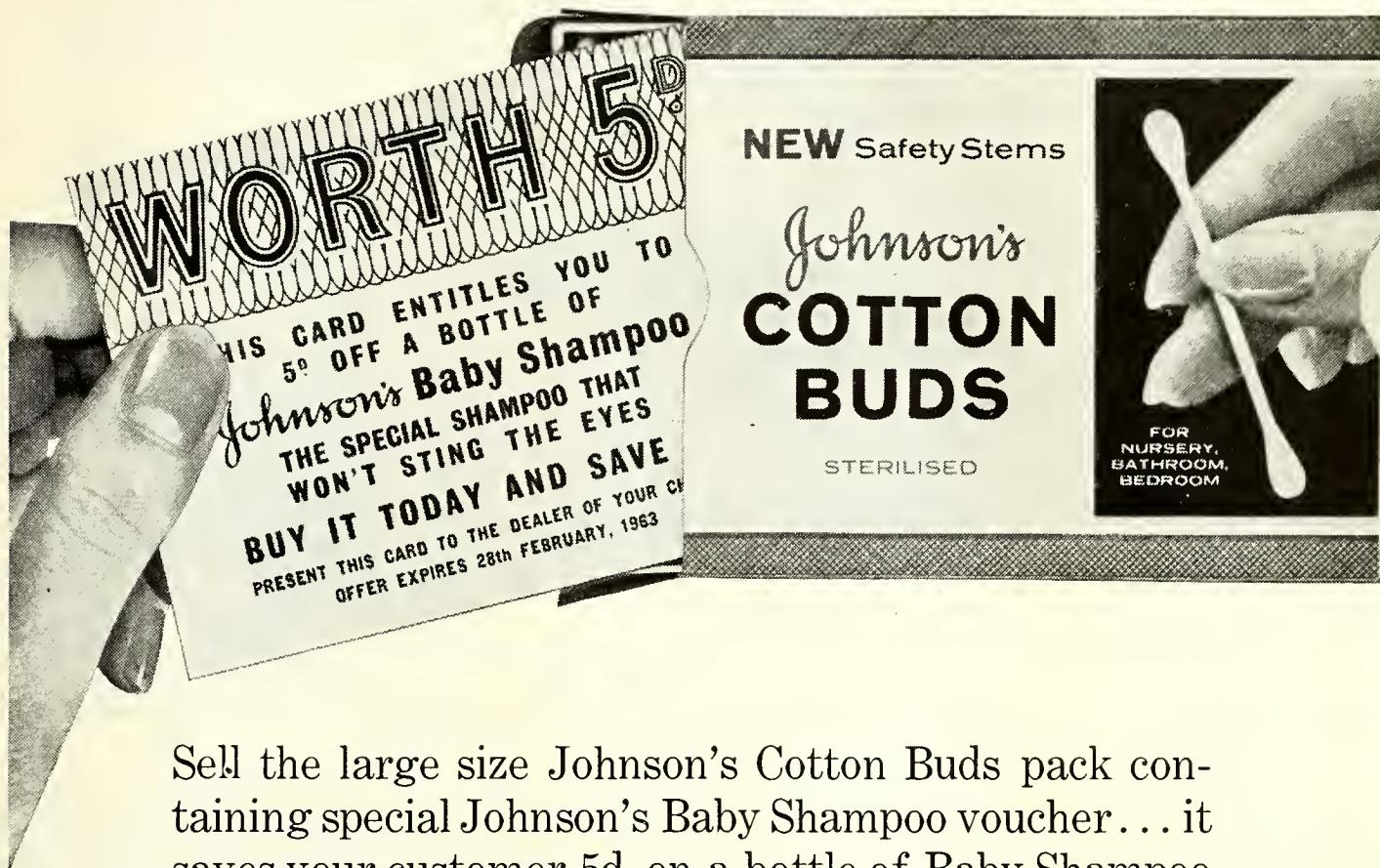
ACETANILIDE B.P.C. 1949

Please write for samples and quotations

BUSH

W. J. BUSH & CO. LTD. LONDON. E.8. ENGLAND

**FINE CHEMICAL
MANUFACTURERS**



Sell the large size Johnson's Cotton Buds pack containing special Johnson's Baby Shampoo voucher... it saves your customer 5d. on a bottle of Baby Shampoo **and your total profit is 1s.10d.**



Don't miss this highly appealing offer!
The positively "can't miss" display unit makes money three ways—to a total of 33/-. Full details from your Johnson & Johnson representative.

Johnson & Johnson

BRAND NEW • HEAVY GAUGE STEEL SHELVING

FREE DELIVERY !

N. Scotland, Ireland, I.O.M. 10% extra.

71" high x 34" wide, 12" deep with 6 shelves
as illustrated.

Height

71"

Width

34"

Depth

9"

No. of
Shelves

6

Price

63/-

Price
each 3
or more

61/-

71"

34"

12"

6

65/-

63/-

71"

34"

15"

6

85/-

83/-

85"

34"

12"

6

73/-

71/-

85"

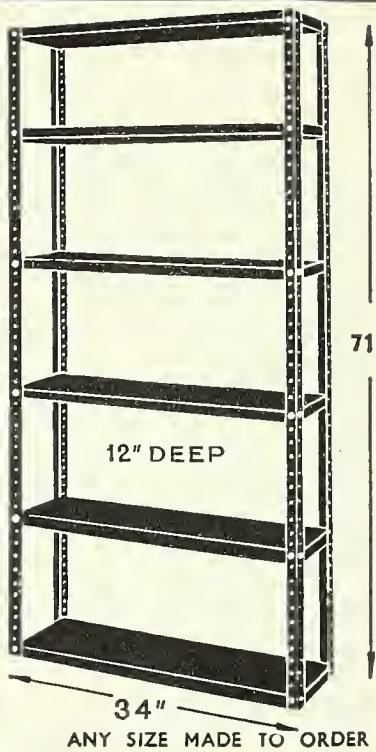
42"

12"

6

91/-

89/-



HANDY DRAWER UNITS

Brand New

42" high, 13" wide,
12" deep.

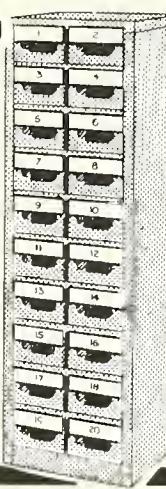
20 DRAWERS: 5" wide,
3" high, 11½" long.
Stove enamelled dark
green.

Direct from manufac-
turers.

Write now for list of
other sizes.

£7.15.0

C.W.O. or C.O.D.



★ EACH SHELF WILL HOLD
OVER 3 CWT.

★ SHELVES ADJUSTABLE
EVERY 2"

★ STOVE ENAMELLED
DARK GREEN

★ WHITE ENAMEL UNITS
30/- EXTRA

Buy direct from the Manufacturers.

ROCHDALE METAL PRODUCTS

Dept. CD SHAWCLOUGH WORKS • WATERFOOT
ROSSENDALE • LANCS. • ROSSendale 2450

Vitamin D3

Vitamin D3 Crystalline

**Vitamin D3/Cholesterol
Double Compound**

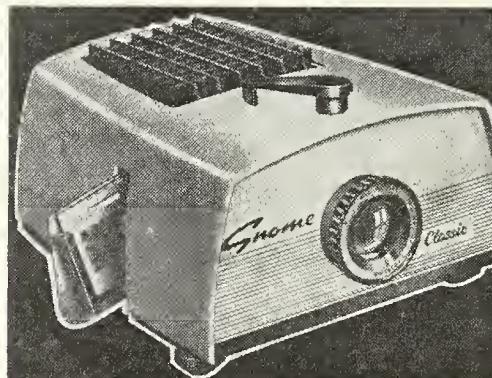
**o-Cresol- α -glycerol-ether
(Mephenesin)**

MANUFACTURERS . . .

PEBOC Limited
BELVUE ROAD, NORTHOLT, MIDDX.

SELLING AGENT . . .

C.T. BOWRING & Co. [Fish Oils] Ltd.
14/18 BLACKSTOCK STREET, LIVERPOOL, 3, ENGLAND



A REVOLUTIONARY STEP IN SLIDE PROJECTION

The Gnome Classic reflects the latest
trends in British and Continental
projector design and incorporates
improvements exclusive to this fine
projector.

Projector £10.19.6

Lamp Extra - - £1.10.0

Leather-type zip
fastener Carrying
Case - - - - £1.9.6



Send for full
details.

Photographic Products Ltd., Caerphilly Road, Cardiff

Gnome
CLASSIC

150 Watt
PROJECTOR

SUMMER

Is Peak sale time

FOR



Suitable for

BURNS AND WOUNDS

NAPPY RASH

SORENESS

Retail

2/6

tube

SUNBURN

CHAPPED HANDS

STINGS AND BITES

FROM
CHEMISTS
ONLY

*Trade price 20/- per doz. + bonus, with double bonus on
3 doz. lots*

We recommend you to keep AIDEX on permanent display from now until the Autumn. Year after year during this period there are unpredictable yet frequent demands for a burn and wound cream and those requiring it will head for the chemist where they have seen Aidex prominently displayed. Aidex contains Benzocaine and therefore gives

immediate pain relief, a very desirable feature from the sufferer's point of view, for which he will thank you, and call again. Remember too that Aidex, having various First Aid uses, is a steady seller at all times of the year, is "Chemists only," and carries big profits.

A PRODUCT OF

Coxon, Gerrard & Co. Ltd.

Telephone: BROadwell 1355 (5 lines)

OLDBURY, BIRMINGHAM

ARE YOU ON
BETTER TERMS
WITH GEVACOLOR?



Are you one of thousands of retailers taking full advantage of the current Gevacolor advertising campaign? Big press advertisements, TV and cinema commercials are bringing more and more customers, looking

for Gevacolor film, to stockists all over the country. Good, well displayed stocks of Gevacolor film backed by the lively new point-of-sale material must mean more profit for you.

Gevacolor N5 Negative Film 120, 620, 127 sizes, and 35 mm (20 exp.) cassettes

Gevacolor R5 Reversal Film 120, 620, 127 sizes, and 35 mm (20 and 36 exp.) cassettes

GEVAERT

Gevacolor Reversal Cine Film Double-8 mm 25 ft. spools. 16 mm 100 ft. spools
R5 for daylight • R3 for artificial light

GEVAERT LIMITED, GREAT WEST ROAD, BRENTFORD, MIDDX. TELEPHONE ISLEWORTH 2131

*you'd never guess
I wear elastic hosiery*



Jayskin
TWO-WAY-STRETCH
SURGICAL ELASTIC
HOSEIERY

Self measurement forms
and fitting guide supplied.

Made in cotton or nylon to
N.H.S. Specification and
packed in attractive boxes.

Made to measure hosiery
despatched by return.

WOOD BASTOW (ELASTICS) LTD.

Dove Green, Selston, Nottinghamshire.
and at Victoria Road, Pinxton, Notts.

SELL VITASUN CAPSULES FOR SUNBURN PROTECTION

EMPIRE GAMES—PERTH 1962

Vitasun proved its worth to our athletes at the 1960 Olympic Games. Consequently special arrangements have been made for Vitasun to be available to all our competitors in the forthcoming Empire Games. Vitasun is the easy modern way to acquire suntan without sunburn. Sales continued to increase both at home and overseas.

5/6
a box
Retail



Manufactured by:

Burgoine Burbidges & Co. Ltd., 274 Illderton Road, London, S.E.15.

**"RELIANCE"
NATURAL SPONGES**

**Natural
Deep Sea Sponges**

To display a natural deep sea sponge is to sell it—because discriminating customers know that it is softer and kinder to the skin, and more lasting and more hygienic than any substitute—as well as holding three times as much water.

Cresswell's offer the best of the sponge crop. Please write for our price lists, and when in the West End of London a visit to make your own selection is welcomed.

CRESSWELL BROS. SPONGES
3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2
TELEPHONE TEMple Bar 5331

now is the time to stock up with

'NIAGARA'
Blackcurrant Drink

THE
BLACKCURRANT DRINK
IN THE
EYECATCHING
NEW PACK

Made from the finest blackcurrants and pure cane sugar, 'Niagara'—rich in Vitamin C—is the ideal health drink for both young and old. Make sure you have ample supplies, because 'Niagara' has 'year round' appeal. Display material available.

ORDER FROM YOUR WHOLESALER NOW!

PROCESSED BY
BARNETT & FOSTER LTD
Queensbridge Road, London, E.8. Tel: CLIssold 7132

Head Office and Accounts: Niagara Works, Eagle Wharf Road, London, N.I. AP 130

**Halina****35X**

- ★ All metal precision 35 mm.
- ★ f/3.5/45 mm. colour corrected lens.
- ★ Synchronised shutter up to 1/200th sec.

★ Coupled film Transport and exposure counter.
IDEAL FOR BLACK/WHITE COLOUR

Ever Ready case £1/8/1 **£7-13-3**

Halina**35 mm. TABLE
VIEWER**

- ★ Battery Operated.
- ★ The extra large, precision ground twin optically polished lenses are made from the world-famous Chance Pilkington Optical Glass giving perfect enlargements
- ★ Large magnification 2½ times.
- ★ Lenses can be taken out for cleaning purposes.



Two U11 Batteries 10d. extra

£1-19-6

**Halina**
A1**Halina**
EQUIPMENT

For a speedy turnover

**Halina** **PET**
BEST VALUE IN 35 mm.
CAMERAS

- ★ Three apertures 8-11-16
- ★ Bulb and instantaneous shutter.
- ★ ALL METAL with satin chrome/leatherette finish.
- ★ Synchronised for flash.
- ★ Double exposure prevention.

Ever Ready Case £1/8/1 **£4-19-6**

★ TWO CAMERAS IN ONE
★ All metal.
★ 2½ x 2½ and 35 mm. on 120 film.
★ f/3.5/80 mm. colour corrected lens.
★ Synchronised shutter speeded up to 1/100th sec.
★ Coupled front lens focusing.
Leather Ever Ready case £2/7/-

£10-10-0

**Halina**
VICEROY

- ★ TWO CAMERAS IN ONE
- ★ All metal.
- ★ 2½ x 2½ and 35 mm. on 120 film.
- ★ Double meniscus f/8 lens.
- ★ Actual size ground glass reflex view-finder.

★ Synchronised for flash.

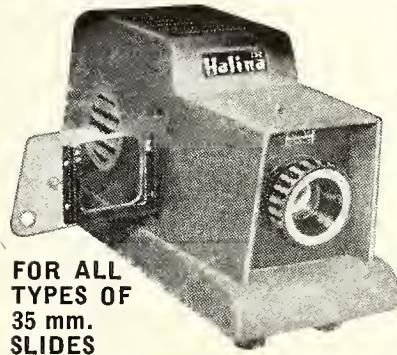
Ever Ready Case 18/- **£3-19-6**

Halina 150 **2" x 2"** **STILL
PROJECTOR**

- ★ f/3.5/80 mm. hard-coated colour corrected lens.
- ★ Double condensers.
- ★ All metal.
- ★ Accepts all 2" x 2" slides.
- ★ 150 watt.
- ★ Helical focusing.
- ★ Heat absorbing filter.
- Can be converted to 300 watt projector in a few minutes by fitting the HALINA all-metal Fanbase £5/5/0

£8-19-6

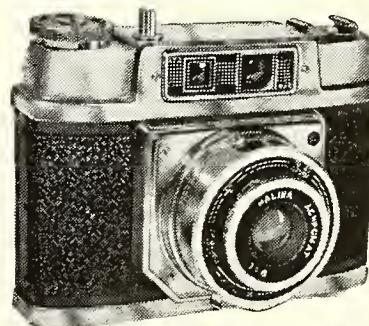
150 watt lamp 21/9. Carrying case 25/-



FOR ALL
TYPES OF
35 mm.
SLIDES

Halina **6-4**
TWO-IN-ONE CAMERA

- ★ ALL METAL.
- ★ Achromatic lens f/8.
- ★ Front lens focusing.
- ★ Apertures 8-11-16.
- ★ Double exposure prevention.
- ★ Synchronised for flash (bulbs).



£3-19-6

Ever Ready Case £1/9/11 with detachable back.



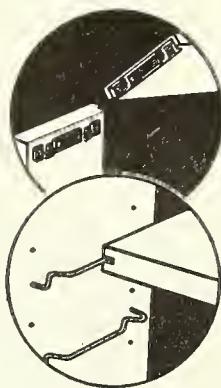
J. J. SILBER LTD., 11 Northburgh Street, London, E.C.1 Telephone: CLErkenwell 8031 (10 lines)

Cut shop- fitting costs with



Remploy

Patent No. 641839




Lundia

SHELVING

KNOWN THROUGHOUT THE WORLD

NO OUTSIDE LABOUR NEEDED TO ASSEMBLE

Fitting or refitting your shop with Remploy-Lundia prefabricated shelving saves you money. It needs no outside labour to assemble . . . it costs far less than custom-built installations . . . and it is remarkably adaptable.

Because of the comprehensive range of sizes, Remploy-Lundia Shelving can fit into any given wall space to *within 6 inches*. Each shelf is adjustable—can be moved up or down at intervals of $\frac{1}{4}$ inch.

Any combination of widths can be joined together, and extension bays are easily added to existing Remploy-Lundia units.

Made from polished hardwood in natural finish, Remploy-Lundia Shelving is smart looking as well as practical. Remploy-Lundia can cost as little as 70/- per foot by 6ft. high.

Fill in coupon today for full details of Remploy-Lundia Shelving

TO : REMPLOY LIMITED, Remploy House, (Dept. C.D.4) 415 Edgware Road, N.W.2.

Please send me full details of Remploy-Lundia Shelving

Tel: GLA. 8020

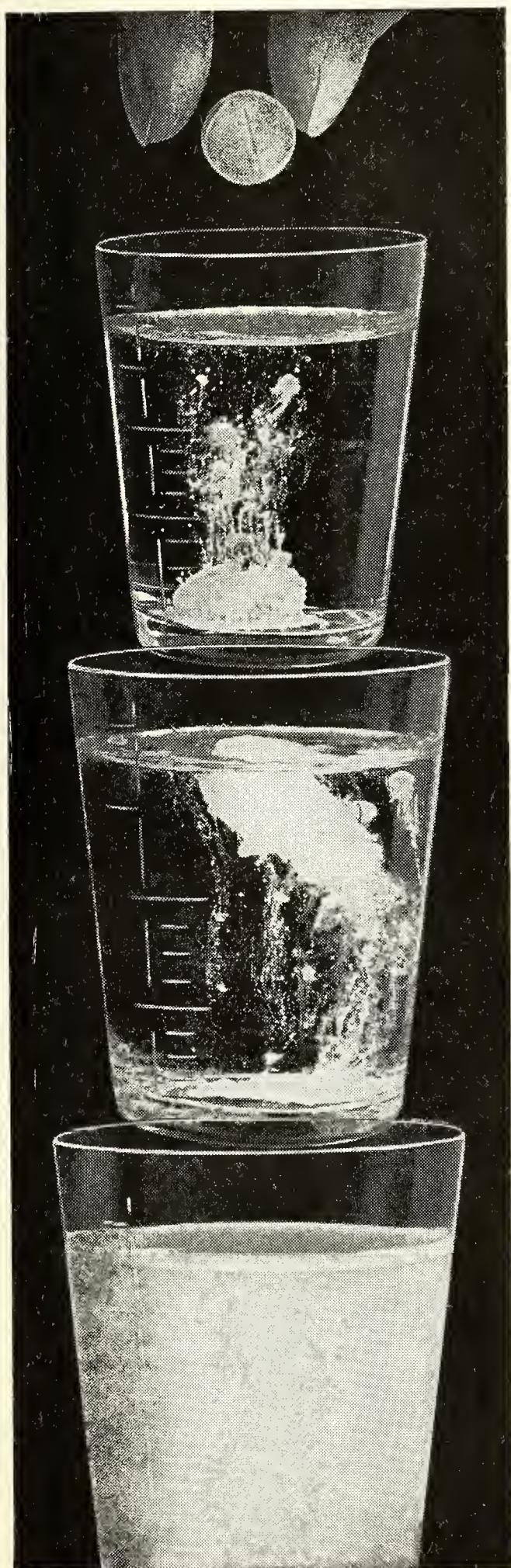
NAME

ADDRESS

London Showroom : 22 Bruton St., W.1. Tel : MAYfair 4881/2

Easy to assemble Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

Shelves simple to adjust Special spring clips plug into uprights of Remploy-Lundia Shelves at $\frac{1}{4}$ inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.



Solprin



NEUTRAL SOLUBLE ASPIRIN

Codis



SOLUBLE ASPIRIN, PHENACETIN AND CODEINE

Cafdis



SOLUBLE ASPIRIN, PHENACETIN AND CAFFEINE

Their place to-day

General acceptance won by Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently, all three are quick acting and are far less likely to upset the stomach.

Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.

RECKITT & SONS LTD.
PHARMACEUTICAL DEPARTMENT, HULL



NEW LARGE TUBE

NATURAL, PEACH and IVORY ONLY
No. 4 SIZE: TRADE 27/8 DOZ. RETAIL 4/7 each.



Constantly advertised in Women's Magazines

WELL WORTH DISPLAYING

ORIGINAL DESIGN—ALL SHADES
IVORY, NATURAL, PEACH, OCHRE,
SUNGOLD, APRICOT and RACHEL

TUBES No. 2 No. 3
TRADE 8/8 doz. 13/10 doz.
RETAIL 1/5 each 2/4 each

JARS
TRADE 20/6 doz. RETAIL 3/5 each



DIXOR LTD. ST. LEONARD'S ROAD
MORTLAKE, LONDON, S.W.14



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
SODIUM METABISULPHITE
SODIUM HYPOSULPHITE
(Crystals and Anhydrous)
SODIUM SULPHITE
(Crystals and Anhydrous)
EPSOM SALTS B.P.
GLAUBER SALTS B.P.
SULPHUR (Ground and Unground)
ACCUMULATOR ACID

Enquiries Invited

WILLIAM BLYTHE & CO., LTD.
HOLLAND BANK CHEMICAL WORKS, CHURCH
LANCASHIRE

Tel: 32141/3 ACCRINGTON

Grams: BLYCO, ACCRINGTON

GODDARDS
take the
trouble
out of
selling



15 sec spots

LONDON & MIDLANDS T.V.

Goddards Embrocation take the trouble out of selling with regular 15 second television spots in London and the Midlands. Sales prove these "time tested" products bring satisfied customers—more profit for you.

J. GODDARD & CO. LTD.
100 MONCRIEFF ST., PECKHAM, S.E.15. NEW X. 0767

HARDWOOD APPLICATORS

100 boxes and over 3/2 per box, 50 to 99 boxes 3/6 per box,
under 50 boxes 4/- per box. Standard pack, 6 gross to a box

IMMEDIATE DELIVERY FROM LONDON STOCKS

TONGUE DEPRESSORS

LOWEST PRICES SINCE THE WAR

Size 6 in. x $\frac{1}{2}$ in. x 2 mm. thick. Prime Hardwood perfectly finished
Boxed 100's Minimum order 10,000

Wholesale Houses only supplied

ASHWOOD TIMBER INDUSTRIES LTD.

Specialist in Veneer and Plywood Products for all Trades

IBEX HOUSE • **MINORIES** • **LONDON, E.C.3**
Tel.: ROYal 2494 Cables: ASHTIM, LONDON



THE FAMILY REMEDY
FOR INDIGESTION
FOR OVER 60 YEARS

Retail Prices

2/- 4/3

6/6 15/4

(including tax)

BOX'S INDIGESTION PILLS

W.H.BOX • 47 COBOURG STREET • PLYMOUTH

BOTANICALS
CHEMICALS
GUMS

JKL

ESSENTIAL OILS
SPICES
WAXES

NEW YORK

MENTHOL
★
AGAR AGAR
★
ELEMI
★
LOBELIA
★
CASCARA
IPECAC.
OPIUM
★

HAMBURG

JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2.

Telephone: LONDON Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"
Telex: 28760

THE CURL SET HAIR ROLLER

BETTER
VALUE
FOR
LESS
MONEY

Light Practical Durable

AVAILABLE IN 7 SIZES
WITH OR WITHOUT BRUSHES
IN ATTRACTIVE DISPLAY BOX



"OCEANS OF NOTIONS"

PRODUCT

A. BURNET & CO LTD.

NOTION HOUSE, 66/7 NEWMAN ST., LONDON, W.I. Museum 0133

The
CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

Telephone: CENtral 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

APPOINTMENTS — 24/- per $\frac{1}{2}$ " s.c. minimum and pro rata. **AGENTS** — **AUCTION SALES** — **BUSINESSES FOR SALE** and **WANTED** — **CLEARANCES and WANTS** — **CONTRACTS** — **MISCELLANEOUS** — **PATENTS** — **PARTNERSHIPS** — **PREMISES** — **PUBLIC and LEGAL NOTICES** — **SITUATIONS VACANT**. Run-on — 4/- per line (minimum 20/-). Semi-display — 24/- per $\frac{1}{2}$ " s.c. minimum. Displayed with border rule, larger type faces and blocks — 60/- per s.c.l. minimum. Reduced rates for one-third, one-half and full pages on application. **SITUATIONS WANTED** — 6/- per 18 words minimum, then 4d. per word. Use of Box No. — 2/-. Advertisements received by 4 p.m. Tuesday published same week.

PREMISES

HUNGERFORD, BERKS. Valuable freehold premises in High Street, adjoining G.P.O., for sale in consequence of a death. Remaining goodwill of old-established drug store included. Stock at valuation if required. Excellent living accommodation. Valuable fishing rights. Details from A. W. Neate & Sons, Estate Agents, Newbury. C 4674

APPOINTMENTS

**BETHNAL GREEN HOSPITAL,
CAMBRIDGE HEATH ROAD,
LONDON, E.2**

Locum Pharmacist
required. Salary 18 guineas a week. Apply to Hospital Secretary. C 601

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist
for Bethnal Green Hospital. Modern department. Salary scale £700—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

CHARING CROSS GROUP OF HOSPITALS

Pharmacist
required at Charing Cross Hospital, London, W.C.2. Whitley Council scale £690 rising to £920 plus London Weighting and £25 special qualifications allowance. Write stating age, experience, qualifications and two names for reference to House Governor (A). C 597

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist-in-Charge
required for holiday relief duty at Bethnal Green Hospital, E.2, 10th September to 22nd September, 1962. Salary 22½ guineas a week of 39 hours. Apply to Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 605

**ESSEX COUNTY HOSPITAL,
COLCHESTER**

Assistant-in-Dispensing
required at Essex County Hospital, Colchester. Salary as Whitley Council scale rising to £575 per annum. Applications to Group Secretary, Colchester Hospital Management Committee, 14 Pope's Lane, Colchester, Essex. C 7536

**THE LONDON HOSPITAL,
WHITECHAPEL, E.1**

Locum Pharmacist
required immediately. Salary £18 18s. per week. Applications to House Governor. C 590

**HAMMERSMITH HOSPITAL AND POST-GRADUATE MEDICAL SCHOOL,
DU CANE ROAD,
LONDON, W.12**

Locum Pharmacist
required at above General Teaching Hospital for several weeks, commencing as soon as possible. Salary 18 guineas per week. Apply, giving particulars of experience to Chief Pharmacist. C 7561

**LEYBOURNE GRANGE GROUP HOSPITAL MANAGEMENT COMMITTEE,
LEYBOURNE GRANGE HOSPITAL,
WEST MALLING, KENT**

Chief Pharmacist
Applications are invited from Registered Pharmacists for the above post in this Hospital for the Mentally Subnormal of about 1,500 beds (male and female). Salary and conditions of service as agreed by the appropriate Whitley Councils for the Health Service, namely £895 x £35 (3) x £40 (5)—£1,200 a year. Self-contained residential accommodation available for rental for a single female applicant. Applications giving qualifications, present and previous appointments and names and addresses of two referees to the Group Secretary. C 4678

NATIONAL HEALTH SERVICE JOINT PRICING COMMITTEE FOR ENGLAND

Deputy Superintendent
Applications are invited for the post of Deputy Superintendent at the Northumberland No. 1 Pricing Bureau, in Newcastle. The Salary Scale is £1,050 x £40 (6)—£1,290 per annum. The Deputy Superintendent will be required to assist the Superintendent who is responsible to the Committee for the efficient operation of the Bureau and the duties entail, among other things, resolving the many problems arising from the pricing of National Health Service prescriptions. Pharmaceutical and administrative experience are desirable together with ability to supervise staff. The selected candidate may be required to pass a medical examination. Applications giving age, education, qualifications, experience and the names and addresses of two referees should be sent to the Clerk of the Committee, 38 Northumberland Street, Newcastle-upon-Tyne, 1, by August 11, 1962. C 7548

**THREE COUNTIES HOSPITAL,
ARLESEY, BEDFORDSHIRE**

Assistant-in-Dispensing

Applications are invited for Assistant-in-Dispensing. Salary and conditions as Whitley Council scale, £425 at age 22 or over, rising to £575 per annum. Accommodation available for single man or woman applicant. Applications, stating age and experience, together with the names and addresses of two referees, should be sent to The Medical Superintendent. C 576

**MEDWAY AND GRAVESEND HOSPITAL MANAGEMENT COMMITTEE,
ST. BARTHOLOMEW'S HOSPITAL,
ROCHESTER, KENT**

Assistant-in-Dispensing

Applications are invited for the above post at this hospital. Salary according to age and experience, on scale rising to £575 per annum. Candidates should preferably hold the Certificate of the Society of Apothecaries or an equivalent qualification for which an additional allowance of £50 p.a. is payable. Please apply to the Hospital Secretary, giving details of age, qualifications, experience and names of two referees. C 7560

**PINEWOOD HOSPITAL,
NINE MILE RIDE,
WOKINGHAM, BERKS**

Locum Pharmacist-in-Charge
required August 27 to September 15. Salary £22 1s. per week. Residential accommodation may be available. Applications to Secretary. C 7533

**ST. LEONARD'S HOSPITAL,
NUTTALL STREET,
LONDON, N.1**

Pharmacist

Applications are invited for the above post at this hospital. Salary scale rises to £985 per annum, plus an allowance for higher qualifications, salary increase pending. Pharmacists with previous experience outside the Hospital Service may enter the scale at a point not exceeding £860. The post will be vacant on September 1, 1962. Applications to the Hospital Secretary. C 607

SOUTH OCKENDON GROUP HOSPITAL MANAGEMENT COMMITTEE

Assistant-in-Dispensing

Applications are invited from suitably qualified or experienced persons for the post of Assistant-in-Dispensing for duties in Group but mainly at South Ockendon Hospital, South Ockendon, Essex. Salary according to age 18 to 21 years £250—£360 a year; at 22 years and over within scale £425 x £20 (5) x £25 (2) to £575. Additional £50 per annum payable to holders of specified qualifications. Applications to the Group Secretary to the Committee, Leytonstone House, High Road, London, E.11, stating full names, address, date of birth, present and past appointments, experience and qualifications together with names and addresses of two referees within 10 days of appearance of this notice. C 7559

**THE ROYAL HOSPITAL,
WOLVERHAMPTON**

Basic Pharmacist or Senior Pharmacist

Applications with names of two referees to the Hospital Secretary, from whom further details may be obtained. C 7544

Appointments—Continued**ST. LEONARD'S HOSPITAL,
NUTTALL STREET,
LONDON, N.1**

Assistant-in-Dispensing

required at the above hospital. Salary scale rises to £615 p.a. Extra pay for appropriate qualifications. Good working conditions, 39-hour week. Applications to the Hospital Secretary.

C 608

**CHIEF PHARMACIST
H.M. PRISON SERVICE**

Male or Female registered Pharmacist, aged 25 or over, required for a Chief Pharmacist Category II post at H.M. Prison, Birmingham.

Salary scale £895 to £1,200.

STARTING PAY ABOVE MINIMUM in some cases for previous N.H.S., Government Service or other comparable experience. Additional allowance of £25 for higher qualifications. FIVE-DAY WEEK. POST SUPERANNUABLE under N.H.S. superannuation scheme. Annual leave allowance of 3 weeks and 3 days (4 weeks after 10 years service) plus 8½ days paid public and privilege holidays.

Apply: Establishment Officer,
Prison Commission (JB 638),
Horseferry House,
Dean Ryle Street, London, S.W.1.

C 7551

**YORK "A" AND TADCASTER
HOSPITAL MANAGEMENT
COMMITTEE,
COUNTY HOSPITAL,
MONKGATE, YORK,
CITY HOSPITAL,
HAXBY ROAD, YORK**

Post-graduate Pharmaceutical Students required for duty at the above Hospitals from September 1962.

Salary £460 per annum.

Applications giving details of age, education, qualifications and names of two referees to Hospital Secretary.

C 7520

EDUCATIONAL**THE UNIVERSITY OF MANCHESTER**

Applications are invited for two posts at the grade of ASSISTANT LECTURER IN PHARMACY. The posts offer opportunity for research leading to a higher degree. Salary on a scale from £900 to £1,050 per annum. Membership of F.S.S.U. and Children's Allowance Scheme. Applications should be sent not later than August 8, 1962, to the Registrar, The University, Manchester, 13, from whom further particulars and forms of application may be obtained.

C 7553

SITUATIONS VACANT**RETAIL (HOME)**

CAMBRIDGE. A vacancy for an assistant pharmacist, male or female, occurs at an old-established business situated in the centre of university life. House available if required. Apply: G. Peck & Son, Ltd., 9 King's Parade, Cambridge.

C 4683

ALLEN & HANBURY'S LIMITED

are offering appointments to young Pharmacists as
REPRESENTATIVES

in the Birmingham, Hull and Exeter areas

Training will be given and the posts offer a challenge to young male Pharmacists with drive, initiative and ambition. A good salary and full expenses will be paid and a car is provided. The posts are pensionable. Applications giving full details of age, qualifications and experience should be sent to the Personnel Manager, Allen & Hanbury's Ltd., Bethnal Green, London, E.2, quoting reference No. R. 22.

C 7526

CHEMIST COUNTER ASSISTANTS. Ladies required for North London. Good salary given for experienced persons. Apply: Managing Director, Kendale Chemists, 51 Exmouth Market, London, E.C.1.

C 4624

EAST LONDON, ten minutes from Aldgate. Experienced dispensing assistant, male or female, required for well-run modern pharmacy. Counter experience an advantage; 4 other assistants on staff. Thursday half-day and additional Saturday half-day (about 1 in 4). Salary £13—£17 per week plus fares, depending upon experience. Box C 4679.

WHOLESALE

LEADING FRENCH PERFUMERY HOUSE selling to exclusive outlets require the services of young sales manager. Good prospects. Apply Box C 4672.

**ESTABLISHED PHARMACEUTICAL
MANUFACTURERS
IN THE REPUBLIC OF IRELAND**
require soon a
PRODUCTION CHEMIST

Wide experience in pharmacy and qualification in either pharmacy or science essential. Must have proved administrative ability. Good salary and prospects for right man. Irish National preferred. Full particulars (in strict confidence) to be given with application. Box C 4671.

PRICING AND INVOICE CLERK required for wholesale and manufacturing chemists. Experience in this trade essential. Good salary and conditions. Apply Biorex Laboratories Ltd., 47 Exmouth Market, London, E.C.1.

C 4660

PROCESS WORKER: experienced in manufacture of pharmaceutical ointments and lotions required. Good salary and prospects. Apply: Biorex Laboratories, Ltd., 47 Exmouth Market, London, E.C.1.

C 4625

UNQUALIFIED ASSISTANT required for established wholesale/shipping chemists. Previous experience preferable, but not essential; progressive position and non-contributory pension scheme available. Apply by letter stating age, experience and salary, etc., to W. Bates & Co., Ltd., 25 Oxford Street, Southampton.

C 4681

**MEDICAL
REPRESENTATIVES**

Due to further expansion of the Calmic Sales Force, some additional appointments are necessary for Medical Representatives in the

**London, Glasgow, Warrington
and Gloucester areas.**

These positions offer excellent opportunities with a progressive and expanding company. Preference will be given to persons with pharmaceutical or medical background. Applicants should possess initiative, be of pleasant personality and appearance and be conversant with one of these areas. After training, these representatives will start work on their territories in September. Good salary, company car and usual expenses are offered. A life assurance and pension scheme is operated by the company.

Applications, which will be treated as strictly confidential, to:

MEDICAL MANAGER,
Calmic Limited, Crewe, Cheshire

C 7546

**CAPABLE PRICING AND INVOICE
CLERKS** required. Generous salary. Box C 4680.



Burroughs Wellcome & Company invite applications from Pharmacists for a post in production at The Wellcome Chemical Works, Dartford. Duties will include supervision of teams of girl operatives as well as the manufacture of some pharmaceutical preparations. It would offer a good opportunity for a recently qualified pharmacist wishing to enter industry. The salary paid will be in accordance with qualifications and experience. Applications should be made in writing to the Personnel Manager, Wellcome Chemical Works, Dartford, Kent.

C 7549

Situations Vacant—Continued

ROCHE

Expansion creates opportunities for outstanding young men with the necessary initiative and drive who wish to be medical representatives. A pharmaceutical degree or diploma, or an appropriate educational standard in an allied field, is essential.

Vacancies will occur in :

1. Scotland (Glasgow—northern)
2. Lancashire (south-east, excluding Liverpool)
3. Lancashire (south of the Ribble)
4. London (south-east) and part of Kent
5. London (south-west) and north Surrey
6. Staffordshire.

Appointments will be made for a training course starting in September or October.

We offer a good salary, an exceptional pension scheme, and full expenses with generous car allowances. First-class candidates who desire success and security should apply with full details to the Staff Officer, Roche Products Limited, 15 Manchester Square, London, W.1. Applications will be treated as confidential.

C 7541

THE DISTILLERS COMPANY

(Biochemicals) LIMITED

VETERINARY REPRESENTATIVE

A vacancy exists for a Veterinary Representative to cover South-west England. Applications are invited from men up to 45 years of age and preferably residing in the territory. The initial salary will be commensurate with experience and qualifications; a car is provided and legitimate expenses met. A non-contributory pension scheme is in operation.

Please apply in writing to:

The Manager,
The Veterinary Department,
The Distillers Company
(Biochemicals) Limited,
Broadway House, The Broadway,
Wimbledon, London, S.W.19.
Tel.: LIBerty 6600.

C 7550

WHOLESALE (OVERSEAS)

ENGLISH PHARMACIST having lived and worked in Northern Rhodesia for the past 11 years would be pleased to contact any pharmacist interested in joining him there. Will be in London (on holiday) for the whole of July. Contact at "Rodona," St. George's Hill, Weybridge, Surrey, or at WATerloo 4959 (daytime). C 4662

OVERSEAS

OVERSEAS AGENTS REQUIRED for a range of aerosol products including the highly successful Mouthpeace aerosol telephone disinfectant. Special hospital packs available. Attractive terms. Please write fully, giving details of territory and outlets to The Aeromark Co. (London), Ltd., 4 Pont Street, London, S.W.1, England. C 4669

SITUATIONS WANTED

EXECUTIVE, wide experience sales and sales management, pioneering, marketing, developing, etc., all levels. Excellent connections wholesale/retail. Midlands/North/Scotland, desires change. Write Box C 4634.

RETIRING REPRESENTATIVE (active) is available for "Market Research" and in an "Advisory Capacity" re sales. Large Midlands connection. C 4682

WANTED

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone: Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Park 3137-8. C 140

BUSINESS OPPORTUNITIES

A BARGAIN. As B.B.C. television "Tonight" programme (January 4), Alan Whicker's interview with our director, Mr. T. A. Herbert, LL.B., on our unique services. New ready-made limited companies for sale to suit 1,001 businesses. Guaranteed no trading, £25 including statutory books, memorandum and articles and company seal. Also rapid company registration service. See "Advantages of Trading as a Limited Company," 3/- post free. Business Economy Group of Companies (Dept. x/10), 156 Strand, London, W.C.2. (Tel.: TEM. 8377/2294); 19 Walker Street, Edinburgh, 3 (Tel.: CAL. 1167/8/9). Only firm with both English and Scottish ready-made companies. C 583

HONG KONG AND SOUTH-EAST ASIA. Are you interested in manufacturing, and/or packaging, and/or warehousing, and/or shipping, using Hong Kong as a base for all your markets in Asia? If so, we can offer full facilities. We are a large and well-known Company (established 1841) with European, fully qualified management. For further details airmail, General Manager, P.O. Box 105, Hong Kong, B.C.C. C 4677

PHARMACISTS in England and Wales interested in developing contact lens practice on their premises please communicate with qualified, experienced practitioners at Box C 4675.

Business Opportunities—Continued

LONDON ADVERTISERS having large and varied stock of ex-Government drugs and pharmaceuticals in tablet, ampoule and tube form, seek advice and assistance in disposing of same on a generous commission basis. Replies will be treated in strictest confidence. Box C 7552.

NEW ZEALAND

A well-established firm in Wellington offers manufacturing facilities for United Kingdom Houses seeking an outlet for their products in New Zealand.

Under recent customs tariff amendments, special concessions on importations are applicable if goods are manufactured and packaged, or packed in New Zealand.

Already producing a wide range of nationally distributed food and drug lines, our modern factory and packaging department can offer consistent quality production to specification.

Enquiries should be directed to F. Morgan, A.N.Z.I.C., M.P.S., Managing Director,

WELLINGTON DRUG CO. LTD
58/60 Vivian Street, Wellington,
NEW ZEALAND

C 7357

VIRILE COMPANY wishes to acquire further outlets in the pharmaceutical world. None too large and none too small. Should preferably have access to the well-known wholesale houses. Further details from Orridge & Company, 184 Strand, W.C.2, reference SVB. C 604

MACHINERY FOR SALE

PREMIER 5 in. Colloid Mill with direct coupled 6 h.p. motor, stainless steel construction. Apply: C. Skerman & Sons, Ltd., 10 Parson's Green, London, S.W.6. RENown 6402. C 7470

Machinery for Sale—Continued

STAINLESS STEEL mixing pans, storage vats, steam jacketed pans, Michel mixers, etc. Available due discontinuance certain lines. First-class condition; low prices; seen at Bexleyheath, Enquiries: Southon Laboratories, Ltd., Howbury House, Thames Road, Crayford, Kent. Telephone: Crayford 25586/7/8. C 4676

SALE BY AUCTION

B. NORMAN & SON,
2/5 Little Britain (close to G.P.O.),
London, E.C.1,

will sell by Auction Wednesday, July 25th, at 1.30 p.m., practically new light oak and other SHOP FITTINGS, Drug Runs, Nests of Drawers, Wall and Counter Showcases, Cabinets, Cash Registers, Office Furniture, etc. View day prior. Catalogues available. Tel.: MON. 8501/2. C 7545

TRADE MARKS

THE TRADE MARK No. 561166, consisting of the word BOLSAMAX and registered in respect of chemical substances prepared for use in medicine and pharmacy was assigned on May 1, 1962, by A. Wood, Limited, of 30 Flect Street, London, E.C.4, to N. Best of 107 Windmill Road, Brentford, Middlesex, without the goodwill of the business in which it was then in use. C 4670

MISCELLANEOUS

"COHAR FOR CARPETS" OFFER A SAVING OF 20%. All leading makes available. Can be seen at showrooms—Aberdeen, Bradford, Birmingham, Manchester, Newcastle, Nottingham, Cardiff, Swansea, Plymouth, Glasgow, Liverpool, London, Lancaster, Leeds, Edinburgh, Dundee, Hadleigh, Brighton and Bournemouth, Refrigerators and washing machines 15%, furniture 12½%, power tools 10%. Write Cohar Distributors, 47 Oswald Street, Glasgow, C.1, or phone: Glasgow CENtral 8325, Birmingham MIDland 8333, London CHAncery 2345, Manchester CENTRAL 8844. C 600

FASCIA SIGNS and box signs supplied for cash or rental. Moderneon, Brewery Road, N.7. Phone: Ext. 3, NORth 6688. C 602

DENHILL
BINOCULARS
all sizes for all purposes
Special Trade Terms
For details write
(Dept. IDF), J. A. DAVIS & SON LTD.
94 Denmark Hill, London, S.E.5
C 7505

PICKLES FOOT OINTMENT for hard skin and corns, 1s. and 2s. 6d. per tin. Pickles "S.C.R." for removing Cradlecap, 2s. 6d. per jar. Effective and sound selling preparations. Attractively packed. Please write, J. Pickles & Sons, 57 Cold Bath Road, Harrogate, Yorks. C 603

STOCKTAKING

**Stocktaking with the use of Tape Recorders
by methods originated and perfected by**

D. BLUNDELL & CO. LTD
PHARMACEUTICAL VALUERS

**Carried out Quietly and Efficiently anywhere
at
Moderate Fees
and
No Charges for Expenses**

Results returned within 2 to 3 weeks

Enquiries to:

146 HIGH STREET, MONTROSE, ANGUS
TELEPHONE: MONTROSE 784

C 592

Miscellaneous—Continued

PLASTIC BABY PANTS.
8/9 per Doz. Large Size.
Rose Scented and Lanolin
Impregnated, Elastic or Taper Legs
In Counter Display Boxes
or Cellophane Pack
Price List and Sample on Request
Special Quotations for Quantities
A. & H. Heyman,
27 Grange Road, Darlington.
Tel 3186 C 4609

DISTILLATION FACILITIES for all types of CONTAMINATED SOLVENTS and EXTRACTION BY-PRODUCTS. Tanker collection or drum service where applicable. Purchase or recovery and return quotations. Service throughout the U.K.
ALEXANDER COLE, LIMITED,
114 Cranbrook Road, Ilford, Essex.
Tel.: Valentine 0184/5/6.
C 4663

FINANCE**H.P. 7½% ON NEW CARS**

10% on Cars up to 3 years old.

Through Dealer or Customer.

**ANCHOR INVESTMENT
CO., LTD.,**

Arkwright House,
Parsonage, Manchester, 3
C 7524

You
may now
TELEPHONE
your classified
advertisement
CEN 6565
by 4 p.m. Tuesday
for same week, subject
to space available.

FOR INFORMATION

about products and their
manufacturers

write or 'phone

C. & D.
INFORMATION DEPARTMENT
28 Essex Street, Strand, London, W.C.2.
CENTRAL 6565

Technical Books for the Pharmacist's Library . . .

PHARMACEUTICAL FORMULAS, Vol. 1

The current edition (the 12th, published 1953) was completely revised to incorporate the latest formulations required by recent advances in medical science. It presents a comprehensive collection of pharmaceutical material from world-wide sources. A supplement (April, 1955) brings the book up to date with the changes affected in the British Pharmacopœia, 1953; British Pharmaceutical Codex, 1954; Pharmacopœia of Japan, and State Pharmacopœia of the U.S.S.R. Price £2 0s. 0d. Postage 2s. 6d.

PHARMACEUTICAL FORMULAS, Vol. 2

11th Edition

Contains nearly 900 pages of formulas of adhesives, beverages, cosmetics, dental preparations, horticultural products, lacquers, perfumery, pesticides, toilet preparations, etc., etc. The work has undergone a thorough revision by a team of specialists and is unrivalled of its kind.

Price £2 2s. 0d. Postage 2s. 3d.

If Pharmaceutical Formulas Volumes 1 and 2 are ordered together the combined cost is reduced to £3 17s. 6d. Postage 3s.

CHEMIST'S DICTIONARY OF MEDICAL TERMS

7th Edition

Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertisement writers concerned with the marketing of medicinal products and indeed all who have to delve into the multifarious medicinal compounds of modern times.

Price 17s. 6d. Postage 9d.

PHARMACEUTICAL EMULSIONS AND EMULSIFYING AGENTS

3rd Edition, 1959

With new emulsifying agents continually coming on to the market (others being withdrawn), the index of proprietary emulsifiers included in this essentially practical handbook would alone make the possession of each new edition a "must" for practising pharmacists, technologists and students. Revised by Mr. R. F. White,

the edition is fully up-to-date and informative. 140 pages.

Price 9s. Postage 8d.

subject, and gives his readers the benefit of his findings. There is also an extensive bibliography.

Price 15s. 0d. Postage 8d.

ESSENTIALS OF TREATMENT

1st Edition, 1956

A companion volume to "Diseases and Remedies." An informed and sage approach to the newer drugs in relation to traditional remedies and a placing in proper perspective of medicine, surgery and good nursing in the restoration of patients to health.

Price 17s. 6d. Postage 10d.

THE ART OF DISPENSING

12th Edition, 1953

The most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. New ideas have been incorporated and scientific knowledge has been added to the "art" formerly based on skilful training during apprenticeship. Experience gained in pharmacies of international repute is placed at the disposal of readers.

Price £1 1s. 0d. Postage 1s. 4d.

CHEMIST'S VETERINARY HANDBOOK

11th Edition

Formerly Veterinary Counter Practice.

Provides the pharmacist with adequate and up-to-date information on animal diseases, their causes and the drugs used in their control, thus enabling him to answer the inquiries and meet the requirements of members of the veterinary profession; to dispense their prescriptions; and to handle with knowledge the goods that farmers, poultry keepers and pet owners are accustomed to buy from him.

Price £1 7s. 6d. Postage 1s. 3d.

CHEMIST'S DICTIONARY OF SYNONYMS

(Incorporating "Rouses Synonyms for the use of chemists, their assistants and apprentices.") Contains the best features and most essential information of its predecessors. An extremely useful handbook in solving queries that arise at inconvenient moments.

Price 8s. 6d. Postage 7d.

THE FITTING OF TRUSSES AND ELASTIC HOSIERY

2nd Edition, 1955

This most popular and practical guide has been rewritten and is presented in an even more convenient form, with linson cover and in a page size enabling it to be slipped into the pocket. It gives information also on the supply of other appliances permitted under the National Health Service. Adequately illustrated.

Price 4s. 6d. Postage 2d.

C. & D. REFRESHER COURSE FOR PHARMACISTS

2nd Edition, 1956

First printed as a series of articles in THE CHEMIST AND DRUGGIST, the text has been overhauled to bring the course into line with changes that have taken place since 1952. Deals with recent advances in pharmaceuticals in a simple and concise manner.

Price 7s. 6d. Postage 4d.

A MODERN COURSE OF PHOTOGRAPHIC STUDIES

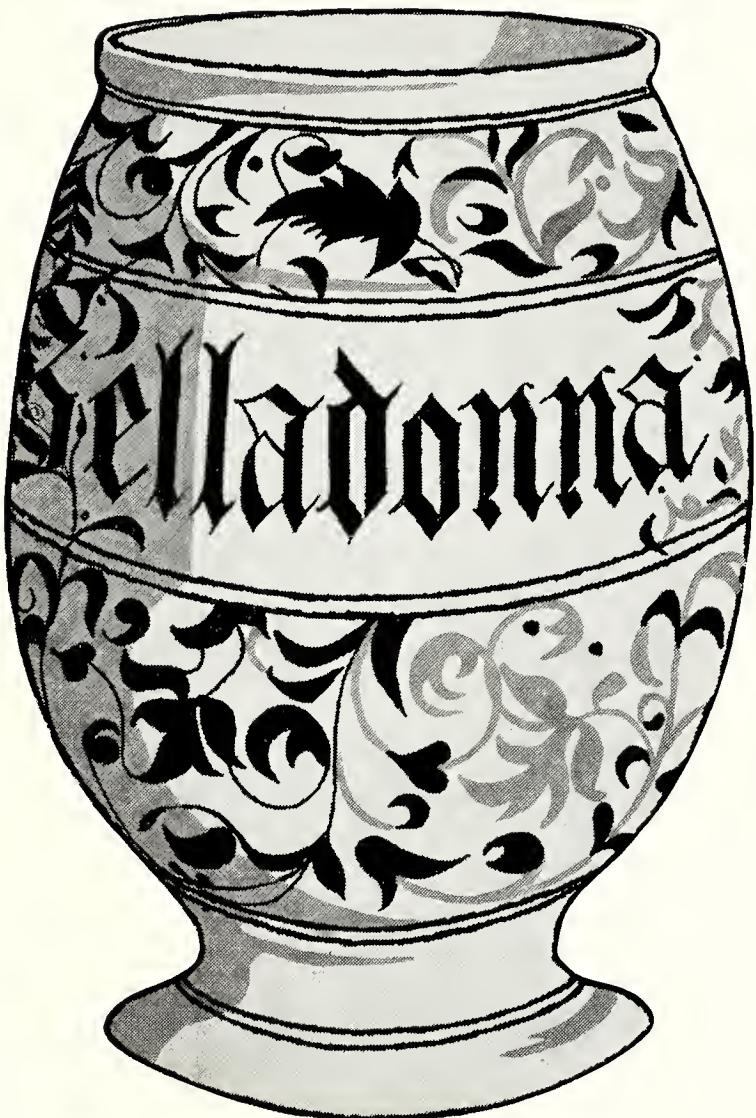
By Dr. H. BAINES, F.R.I.C., F.I.B.P., Hon. F.R.P.S., and specialist collaborators.

Lucidly imparts in orderly steps and with ample diagrams and illustrations the scientific, technical and other knowledge demanded of entrants to the examinations of the Photographic Dealers' Association.

Price 7s. 6d. Postage 7d.

THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2. CENtral 6565

you
can't
judge
a
galenical by its gallipot



**EXTRACTS
TINCTURES
ESSENTIAL OILS
INFUSIONS
SYRUPS
RESINS
OLEO-RESINS**

If you want to be sure about the quality and performance of a galenical, you need to know something about its background. When you buy drugs and galenicals from Ransoms, you have the assurance that all the Company's products conform to the highest possible standards of excellence. With over a century's experience behind it, the name Ransom is synonymous with quality throughout the world.

Actual growers of Belladonna, Henbane, Peppermint, Lavender, Foxglove.

ESTABLISHED 1846



William Ransom & Son Ltd.,
Manufacturing Chemists and Growers of Medicinal Plants for over a Century.

Hitchin : : Hertfordshire : : England

THE ETHICAL MEDICAL PREPARATION FOR
THE TREATMENT OF ASTHMA



*Prescribed and Recommended by the Medical Profession
in Hospitals, Private Practice and Government
Departments in all parts of the world to which it
has been introduced.*

Tax free Dispensing Pack available.

BRITISH FEL SOL COMPANY LTD.

WIGTON HOUSE, 206-212 ST JOHN STREET, CLERKENWELL, LONDON, E.C.1.

Telephone, CLERKENWELL, 5862 Cables, 'Felsol', Smith, London.